

TTAG NEWSLETTER - AUGUST 2024



TTAG ANNOUNCEMENTS

Join us at our
WELCOME BACK PARTY!
SAVE THE DATE
Saturday September 7
2 - 4 PM
Stonestown Sports Basement

Register for TTAG [HERE!](#)



RECRUITING TECH TREK ALUMNAE FOR WELCOME BACK PARTY

Who: Tech Trek Alumnae

Where: Stonestown Sports Basement

What: Join our Welcome Back Party to celebrate our returning campers and 2024 new Tech Trek Alumnae cohort, and be an active mentor

RSVP: rpcvalle.aauw@gmail.com

WHAT ARE YOU DOING THIS SUMMER?

How you spend your free time is an important piece of your college application process; that is where you explore careers, develop interests, build skills, and ultimately grow! Let us know what you are doing this summer and get featured in our back-to-school Newsletter!

Contact: liencaitlin@gmail.com

FOR RISING Seniors (2024-2025)

If you missed the College Essay Writing Workshop, here is what you should know:

- YOU CAN DO THIS!
- TIME IS YOUR FRIEND
- USE YOUR AUTHENTIC VOICE
- TAILOR YOUR ESSAY TO EACH COLLEGE
- YOUR ESSAY SHOULD STAND OUT (Soundbite)
- START WRITING during the SUMMER BEFORE SENIOR YEAR
- PLAN FOR DEADLINES

If you'd like access to the recordings, please contact us at: [.rpcvalle.aauw@gmail.com](mailto:rpcvalle.aauw@gmail.com)

STEM ACTIVITIES & OPPORTUNITIES

EXPLORATORIUM'S BAY DAY

Who: Everyone

What: Ever wondered what's inside a scientific ocean buoy? Take a close look at the critters and seaweed with the help of scientists and educators, on hand, to help identify and catalog the marine organisms.

Where: Pier 15 (Embarcadero at Green Street), San Francisco

When: August 3, 2024 11AM - 3PM

Apply/More info here: <https://www.exploratorium.edu/visit/calendar/bay-day>

THE BIOETHICS OF GENE THERAPY (LIVESTREAM) WITH DR. RAFAEL ESCANDON

Who: Everyone (better suited for high schoolers or older)

What: Go through the origins, history, and current state of affairs in gene therapy - emphasizing both the hope and the areas where great care and ethical concerns lie.

Where: Virtual

When: August 3, 2024 3PM - 4:30PM

Apply/More info here: <https://www.meetup.com/sfhumanists/events/302217487/>

NASA'S ASTRO PHOTO CHALLENGE SUMMER 2024 - CASSIOPEIA A

Who: Everyone

What: Join NASA's Universe of Learning for an exciting opportunity to use real astronomical data and tools to create your own beautiful image of Cassiopeia A. Explore how this dynamic dead star behaves across different types of light or just create an image that you think is beautiful.

Where: Virtual

Deadline: August 5, 2024

Apply/More info here: <https://mo-www.cfa.harvard.edu/OWN/astrophoto/>

INDUSTRIAL DESIGN AND 3D PRINTING CAMP

Who: 6th-12th graders

What: Take a deep dive into the basics of 3D design and manufacturing in a five day camp, open to all skill levels with students learning about the engineering design process, CAD modeling, and 3D printing, where you will be able to make your own design.

Where: Bishop Ranch San Ramon

When: August 5-9, 2024 10AM - 3PM

Apply/More info here:

<https://kidsteachtech.com/appe0krjxm5BVDVrL/shryLNQFKAlxlo3iy>

MONTEREY BAY AQUARIUM RESEARCH INSTITUTE'S ENVIRONMENTAL INFLUENCES ON DEEP-SEA CORAL REEF REPRODUCTION - LIVESTREAM

Who: Everyone

What: Join Laura Anthony from Florida State University in a talk about deep-sea coral reefs by comparing deep reefs across the North Atlantic under varying food regimes and how organic matter input affects reproduction.

Where: Virtual

When: August 7, 2024 11AM - 12PM

Apply/More info here: https://www.mbari.org/event/laura_anthony/

SAN FRANCISCO AMATEUR ASTRONOMERS CITY PUBLIC STAR PARTY

Who: Everyone

What: Come for a free public stargazing of the Moon, planets, globular clusters and more.

Where: 210 Lincoln Blvd, East Meadow, San Francisco

When: August 10, 2024 8PM - 10PM

Apply/More info here: <https://www.sfaa-astronomy.org/event-5619397>

SUNSET RAPTOR ENCOUNTER IN COYOTE VALLEY

Who: Everyone (better suited to kids age 10 or older)

What: Come to experience several native raptor species including an American Kestrel, Peregrine Falcon, Barn Owl, Great Horned Owl, and the Red-tailed Hawk.

Where: Laguna Seca (Coyote Valley Conservation Area), San Jose

When: August 25, 2024 5:30PM - 8PM

Apply/More info here:

<https://openspacetrust.org/event/raptor-encounter-in-coyote-valley/>

PACIFIC GROVE MUSEUM OF NATURAL HISTORY SCIENCE SATURDAYS

Who: Everyone

What: Meet your avian neighbors in a family event focused on the birds of Monterey County

Where: 165 Forest Ave (Pacific Grove Museum of Natural History), Pacific Grove

When: August 31, 2024 10AM - 3PM

Apply/More info here: <https://www.pgmuseum.org/sciencesaturdays>

THE MARINE MAMMAL CENTER YOUTH CREW

Who: High school students ages 15-18

What: An annual service-learning program where teens get hands-on experience in marine science and environmental education. You'll join an Animal Care Crew to take part in animal husbandry and become an educator to engage people in conversations about our ocean.

Where: Sausalito, CA

When: January - August 2025

Deadline: September 18th, 2024

Apply/More info here:

<https://www.marinemammalcenter.org/get-involved/volunteer/sausalito/youth-crew#Stipend>

THE NASA PSYCHE MISSION INNOVATION TOOLKIT BY NASA

Who: High school and beyond

What: A free online course series based on the real-world science, engineering, technology, and teamwork behind the Psyche mission.

Where: Virtual

When: Ongoing

Apply/More info here: <https://psyche.asu.edu/get-involved/innovation-toolkit/>

TTAG NEWS

2024 TTAG Scholarships as well as Student Associate status with the AAUW - San Francisco Branch were awarded to the following TTAGers:

- Azalea Artiga
- Sonia Lee
- Lexian Nguyen
- Kimia Sattary

For scholarship questions, email: aauwsfbranch@gmail.com

STEM READS

This month's topic: Exoplanets (Planets Orbiting Other Stars)

Writer: Benford, Gregory

Title: 'Think Big' in Nature vol. 499

Description: In the future, astronomers discover planets that have been geo-engineered to deal with global warming and global cooling.

Link: <https://www.nature.com/articles/499374a>

Writer: Brotherton, Michael

Title: 'Beyond 500 Astronomical Units' in Nature vol. 528

Description: An AI probe using the Sun as a gravitational lens to do an exoplanet survey finds intelligent life and debates whether to interrupt its work and report.

Link: <https://www.nature.com/articles/528158a>

Writer: McDevitt, Jack & Shara, Michael

Title: 'Cool Neighbor' in Cryptic: The Best Short Fiction of Jack McDevitt

Description: An astronomer with a giant infrared telescope in orbit discovers a brown dwarf 18 light-day away, with planets. One of the planets shows evidence of oxygen and chlorophyll.

Link: https://www.baen.com/Chapters/1596061958/1596061958_9.htm

Writer: Suhner, L

Title: 'The Terminator' in Nature Futures

Description: The narrator scatters her mother's ashes at the terminator of one of the synchronously rotating planets around TRAPPIST 1, and considers the native life forms on the seven planets of the system.

Link: <https://www.nature.com/articles/542512a>

CONTACT US

It's our goal to bring you workshops, camps, extra-curricular activities, internships, and other exciting opportunities in STEM. Please do not hesitate to contact us if you would like to share with your TTAG community any cool STEM Ed event taking place at your high school. Want to share info and opportunities or give us feedback?

Please contact us at: liencaitlin@gmail.com (Caitlin Lien)