



We at Carollo are passionate about teaching young people that science and technology is in everything we do, every day.



*We advocate for investing time and resources in **STEAM** education as one of the most effective ways to build a secure socio-economic environment for everyone.*

We feel that it is everyone's job — not just teachers — to spark a sustained level of excitement for science and engineering in the minds of young people.

We subscribe to the principles of selflessly giving back to youth as a way to ensure our community's growth potential and quality of life.

We lead by example in developing partnerships and initiatives that will advance this cause and compel our youth to become engaged in their communities.



SAN DIEGO UNIFIED SCHOOL DISTRICT

Carollo Engineers has partnered with the Office of School Innovations within the San Diego Unified School District, and are working directly with the Federal Magnet Schools Assistance Program grant focused on STEAM (Science, Technology, Engineering, Arts, and Mathematics). Specifically,



we are working with the Linda Vista STEAM Pathway program, which includes Carson Elementary, Linda Vista Elementary, and Montgomery Middle School. Carollo Engineers are partnering with teachers on their water units. Partnering with

San Diego Unified, we are coordinating a Water Challenge Competition as part of the Linda Vista STEAM Pathway Fair that is open to the entire community.

BE WISE

Carollo partners with BE WISE, a local organization associated with the Fleet Science Center that engages young women in STEM learning experiences in collaboration with the region's research, industry, and academic institutions.

Carollo hosted its second annual workshop for BE WISE girls in conjunction with the Fleet Science Center. More than 500 girls were invited to San Diego's Pure Water test facility where they were given tours of the plant and exposed to "near to peer" young female engineers who shared enthusiasms, knowledge, and experiences from their science and engineering careers.



ENCINA WASTEWATER TREATMENT FIELD TRIP



Working with San Diego Unified School District, Carollo hosted an onsite field trip once again. Over 50 students spent the morning learning about the wastewater process.

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BIOCOM SAN DIEGO FESTIVAL OF SCIENCE & ENGINEERING



Biocom Institute, based in San Diego, was founded in 2008 as the non-profit workforce development and STEM arm of Biocom, life science trade association. Carollo Engineers once again partnered with the Biocom Institute Festival of Science and Engineering on exciting programs including INSPIRE, IGNITE, INNOVATE - an outreach program pairing professionals of industry with classrooms throughout San Diego County, and FESTIVAL WEEK AND EXPO DAY - a showcase of

innovation with all things STEM with 130 interactive exhibits. Carollo provided a tour of the North County Wastewater Treatment Plant as part of the week's activities. The program STEM IN YOUR BACKYARD is a community driven event where business partners come out to diverse communities with hands-on activities for families.



52 WEEKS OF SCIENCE - BARRIO LOGAN

52 weeks of science has a vision to unite San Diego communities through sparks of science. Carollo spent an afternoon with students and families in Barrio Logan and provided attendees with the opportunity to meet engineers and check out hands-on interactive activities for the family.



SCITECH GIRLS

SciTech is an afterschool program for girls grades 3 - 6. Carollo works with this program to inspire girls to become innovative and creative thinkers by fostering excitement and interest in science, technology, and engineering through engineers in the classrooms. The SciTech girls were competing based on tower designs. They built them using cardboard, tape, pipecleaners, etc. They were designed to represent every day buildings such

as apartment complexes, office buildings, sky scrapers, and even a movie theater. The top scorers of each school competed in the final Tech Challenge where the towers were judged by height/weight requirements and had to pass an earthquake simulation test. The winning tower showed best creativity, teamwork, and sturdiness.

STEAM MAKER FESTIVAL



Carollo Engineers continues its commitment to the outreach of STEAM programs by participating in the annual STEAM Maker Festival held at the Del Mar Fairgrounds. This event offers a collaborative venue for students, educators, and professionals

within our community and industry to demonstrate programs, projects, practices, and resources that enrich STEAM education.



A DAY IN THE LIFE OF AN ENGINEER

At the request of several of our partners, Carollo produced a five-minute video of a day in the life of a young engineer in our San Diego office. The video offers a glimpse into the water engineering field as our young engineer talks about how



she got in to engineering and takes us on a trip to a local water treatment plant. This video is featured on San Diego Unified's and Biocom Intitute's websites, as well as the websites of several local schools.