

# Career Connected

Career Technical Education Program Spotlights

February/March 2023 – Issue No. 4

## Stop the Bleed

Cambridge High School

Men's and Women's Alliance students at Cambridge High School were certified by the American College of Surgeons to "Stop the Bleed" in emergency situations using direct pressure, wound packing, and a tourniquet.

These trainings better prepare the public to save lives if people nearby are severely bleeding. This improves victim survival by empowering trained bystanders to take life-saving action if quickly needed — regardless of the situation or cause of severe bleeding.

## Students to Start a Food Pantry

Roosevelt High School

Roosevelt's Internship students put together a presentation to the school Principal, Mr. Allen. They set up an appointment with him, created a presentation, and got their project approved. They are taking the necessary steps to bring a food pantry to serve the needs of our students and families.

## EMR Lab Trip to Betts Company

Center for Advanced Research and Technology (CART)

The engineering and manufacturing staff of the Betts Company, a Fresno area manufacturer of vehicle suspension springs and large truck parts, guided the CART Engineering, Manufacturing, and Robotics Lab on a tour of the factory. Students experienced the fabrication of metal coil springs, manual and robotic welding, forming of sheet metal truck parts, and the testing and final inspection of the product. Thank you to Betts Company for supporting CART.

## Stop the Bleed for FUSD Counselors

The Counseling Department took the initiative by integrating 2 lifesaving classes to their Buyback training schedule on March 6, 2023. The counselors had a modified First Aid class that addressed some of the common injuries and emergencies that a person would encounter at a school site or field trip such as allergic reactions, seizures, and diabetic emergencies. The class also covered familiarization on the administration of an Epi-pen, Narcan, and Glucagon. Additionally, counselors had a session of Stop the Bleed training and certification in which they learned how to apply pressure dressings, proper wound packing techniques, and tourniquet application to control hemorrhage. Overall, 101 counselors were trained and certified during the event.

## Fresno State Ag Tour

Phoenix Secondary School

Students visited the horticulture unit, sheep unit, and farm market at Fresno State. Students had a great time learning more about what is available to them after high school, and even got to taste test some of the ag products after!

## Hoover Construction Goes to Hearst Castle

Hoover High School

Mr. Priest's Construction Technology classes went to Hearst Castle in San Simeon on Tuesday, February 7, 2023, to learn about the architecture and design of the castle. It was designed by the first woman architect in California, Julia Morgan. She was also the landscape architect and interior designer. Mr. Hearst was ahead of his time by encouraging women to lean in. After the castle we all met at Elephant Seal Beach for lunch and to view the seals and talk to docents about the seals. Thank you chaperones for coming with us, we could not have done this without you!

## Edison Biomedical Health and Wellness Expo

Edison High School

The students of the Biomedical Pathway at Edison High School hosted their annual Health and Wellness Expo where they shared information on a variety of Health topics. They worked side by side with medical industry partners to educate, create awareness, and promote positive life changes within the community. Regional students, parents, district staff, and industry partners were invited to come learn more about their own health and have conversations with presenters regarding current and relevant topics affecting the community. Topics ranged in areas of Medical Health, Physical Fitness, Nutrition, and Mental Health. They did an amazing job delivering powerful and useful information to the community!

Health stations included skilled presentation teams, poster boards, visual-aids, informational brochures, and interactive demonstrations. Even the more experienced Biomed students also participated in the event by mentoring presentation teams, facilitating the event, and evaluating alongside medical industry partners. All student presenters commented on how fun the event was, but more importantly how powerful it was in learning how to be a public speaker, prepare for long term projects as a part of a team, and help them grow and be prepared for a future career in the medical field.

## Sunnyside Receives State Charter for Future Farmers of America (FFA)

Sunnyside High School

In Summer 2022, Sunnyside submitted an application for an FFA Charter and was fully approved to operate an official chapter. The presentation of new charters takes place at the FFA State Conference each year, which happened on March 17 in Ontario, CA. 12 Sunnyside FFA Officers and Student Ambassadors along with 5 district employees attended the Leadership Conference.

FFA is a dynamic youth organization that changes lives and prepares members for leadership, personal growth, and career success through agricultural education. To date, 140 9th grade students are engaged in FFA with the plan to expand one grade level per year over the next 3 years. Sunnyside's Agriscience and Technology Pathway students have been actively engaged in projects during the 2022/23 school year. 89 plant projects were entered at the Fresno Fair. 67 took 1st place in their division, 16 took 2nd place, and 2 took 3rd place. Ag Mechanics entered their Produce Plant Stand Project, which won Best of Show.

Students have also been competing on FFA California Department of Education (CDE) Teams, attended the World Ag Expo in February, were actively involved in creating all the plant arrangements and centerpieces for Fresno Unified's annual Excellence in Education Dinner, and are learning stick and Metal Inert Gas (MIG) welding as well as learning to tool path and cut out complex parts on a commercial Computer Numerical Control (CNC) machine as they support the Folklorico Dance program at Sunnyside by creating a much needed dance floor for their campus.

"They truly are enhancing their community's well-being through their projects and engagement, as well as developing their own personal growth and leadership skills." Michelle Mar, Career Education Manager

## Teacher Academy Students Prepare with the Latest in Educational Technology

Bullard High School

Bullard High School's librarian, Ms. Jierian, met with our Teacher Academy students to give them some additional tools to use in the creation of their sample lessons as well as their work with Gibson Elementary students. Ms. Jierian gave a short professional development for the students going over much of the same things she would for our staff, and gave them some ideas on how to incorporate the technology in the development of the lessons that they are creating, in addition to the work they do with our partner school, Gibson Elementary.

## Forensic Science Cast and Impressions Lab

Hoover High School

Hoover High School Forensic Science class recently completed a lab on “Cast and Impressions”. Shoe impressions are a common piece of evidence in the law enforcement field. In this lab, students learned how to recover, preserve, and analyze this important part of crime scene investigation. A shoe impression can be as unique as a fingerprint.

In small groups, students made shoe impressions in soil. They learned to mix the plaster cast material, spray the impression with hair spray prior to pouring plaster to help solidify the soil and stabilized from the weight of the plaster. They then poured the plaster into the impression, and after the cast hardened, students gently lifted, cleaned, and processed their shoe prints for observation.

## Trustee Adam Levine's Bench Competition

Fresno High School

Advanced Construction students competed to build FUSD Board Trustee a bench for his home. The winning team was chosen by Trustee Levine and was awarded \$250 for the Construction club fund.

## MVP pitches at Patiño

Patiño School of Entrepreneurship

Students at Patiño had the opportunity to pitch their business ideas and “minimal viable product” to industry partners. They were given feedback and students will use that feedback to make changes toward their final pitch in May.

## Sports Medicine Competition

Edison High School

Our EHS Sports Medicine Competition Team participated in the Career Skills Challenge at Fresno City College this month. Each student was tested on their CPR, Ankle Taping, and First Aid skills. Out of 13 teams, these phenomenal students placed 2nd overall and we couldn't be more pleased with their performance. This week they will be traveling to Reedley College to participate in another skills challenge called the Tiger Romp. These students have been attending numerous study sessions in order to prep for these competitions, and hope to once again place top three at Tiger Romp.

## GRID Alternative Certification

Fresno High School

WBL students earned their solar installation certification through Grid Alternative.

## Black History Month

FUSD hosted a Black History Month event at Colonel Allensworth State Historic Park for K-12 students and community members from the Central Valley on Saturday, February 11th. Purpose of the event was to introduce and share with the students Cultural Dancing, Counter-Storytelling, Community Engagement, Indigenous Land Acknowledgment, Develop Critical Consciousness, Indigenous Education, and Black History.

## Students Monitor Threatened & Endangered Species

Center for Advanced Research and Technology (CART)

Environmental Science and Field Research Lab students work closely with longtime mentor and wildlife biologist, Jason Dean, director of the Meyers Water Bank and Wildlife Project, and California Department of Fish and Wildlife Environmental Scientist, Reagen O'Leary, to monitor the presence of threatened and endangered species on the Akali Sink Conservation Bank near Mendota. Last year, students visited the bank to place coverboards on locations determined to be optimal habitat for reptiles. Last year's team set the foundation for the 2023 Legless Lizard Team to monitor presence of species utilizing existing coverboards.

Along with learning to identify various native species, students are learning scientific monitoring protocols and data collection techniques. They will visit the site several times this semester with the hopes of logging several species found within this unique habitat. The students are grateful for the opportunity to learn real-world, hands-on wildlife monitoring strategies from scientists in the career-field about which they are passionate.

## Patiño and Central Valley SCORE

Patiño School of Entrepreneurship

Juniors completed a 5 week course called Simple Steps for Starting Your Business through Central Valley SCORE. They received their certificates for completion and will have an opportunity to work with their network of mentors. Thank you Central Valley SCORE.

## Tenaya Aviation Club Students Take Flight

Tenaya Middle School

Tenaya Middle School teacher Clifton Mickelson, sponsor of the Tenaya Middle School Aviation Club, took five students to the Young Eagles event at Sierra Sky Park on February 12 for a personalized flight over the Fresno area. Experimental Aircraft Association pilots introduced students to the basic mechanics of airplanes and flight and after their flight, each received a Young Eagles certificate of flight and a professional logbook to keep track of their flying hours. All five students are now qualified to begin ground school and flight training.

## Support Blue Run

Hoover and Roosevelt High Schools

**Hoover:** Very proud of these Public Service Club PATES and thankful for Mr. Jones for braving the VERY cold and rainy 39° morning on Saturday, February 25th. Students volunteered at the Support Blue Run organized by the Fresno Police Chaplaincy!

**Roosevelt:** Our Public Service pathway volunteered at the Support Blue run. Even though it was rainy and cold, the students and teachers came out to help with the event. They showed their support by being at different spots to help pass out water, direct runners and others.

## Body Museum Study Trip

Duncan Polytechnical High School

On March 31st, 10th grade students in the Medical Academy of Science and Health (MASH) at Duncan traveled to San Jose, California, and explored the Body Worlds Decoded. During this study trip students learned by full-body visualization of the bones, muscles, nervous, and circulatory systems which were displayed in The Tech Museum. It was a fantastic way for students to link together what they learn in the classroom and in the Duncan's MASH Academy. This trip was put together by the 10th grade Linked Learning teachers Kerri Shaw, Morgan Olsen, and Lupe Ramirez, and provided an experience students won't forget.

## Senior Capstone Presentations

Duncan Polytechnical High School

Duncan is a 9-12 comprehensive Magnet high school where all students complete 4-year career pathway programs alongside their academic courses. Students graduate with their diploma, stackable industry certifications, and college credit, with the school mission being to prepare students for college, career, and life.

Over two days senior students presented to panels of industry partners and Duncan and district staff on their college and career plans, projects, and skills to prove their readiness to enter the workforce and higher learning institutions. When asked about the presentation experience, Construction pathway senior Damion Ortiz said "I wanted to present to [construction and electrical professionals] because I wanted to get feedback on what I've learned over the time that I've been here and I was looking for more feedback in my career area." He also said that afterwards he felt "exhilarated, inspired, and motivated" because he learned about a potential career opportunity from one of the panel members that he was not aware of beforehand.

## FBLA Leadership Conference

Roosevelt High School

Students participated in the FBLA Central Section Leadership Conference at Matilda Torres High School in Madera on February 18. Several students competed, however the following students placed and the marketing team advances to State in April.

- Valeria Reyes & Olivia Arguello competed in Marketing. They placed 5th and advanced to State.
- Erick Lemus Garcia competed in Introduction to Information Technology. He placed 9th.
- Olivia Arguello competed in Public Speaking. She placed 10th.
- Sandra Hernandez competed in Sales Presentation. She placed 7th.

## Bullard Business Pathway Wins Division at Career Skills Challenge

Bullard High School

51 Seniors from the Marketing Sales & Service class went to Fresno City College to compete in the annual Career Skills Challenge competition. There were 30+ schools and 34 possible events to participate in. Business Pathway students entered into 11 events which included; Business Math, Child Development, Desktop Publishing, Elevator Pitch, Graphic Design, Job Seeking Skills, Personal Finance, Photo Editing, Public Speaking, Timed Typing, and Welding. Of the 11 events entered, our team brought home 4 first place medals, 1 second place medal, and 2 3rd place medals, earning the trophy and title for the Yosemite Division, and being only 4 points off from winning the entire competition!

First place winners: Nicholas Wise - Graphic Design; Jeremy Bertz - Public Speaking; Michael Gonzalez - Business Math; Gavin Pittman - Personal Finance.

## Student-Led Financial Literacy Training for FUSD Staff

McLane High School

During a recent district buyback day, some of McLane's Academy of Finance & Entrepreneurship students were invited to deliver professional learning on financial literacy to district classified employees, providing a valuable opportunity for them to showcase their knowledge and skills in the area of personal finance and banking.

These students developed and delivered engaging and informative presentations, leading adults through materials on a range of related topics, including budgeting, saving, investing, and credit management. Our classified staff members were impressed by the students' professionalism and expertise, and they learned valuable insights that will help them manage their personal finances more effectively. This collaboration was a fantastic opportunity for our students to apply their classroom knowledge in a real-world context, and we are proud of their ambition to put learning into action.

## HOSA State Conference

Duncan Polytechnical High School

During March 23rd-25th, 14 Duncan Polytechnical High School students who are part of the Career Technical Student Organization (CTSO) Health Occupation Students of America (HOSA), competed against 3,600 students from all around the state during HOSA's State Leadership Conference. Of those 14 students, 2 qualified and will compete in HOSA's National Competition which will take place at the end of May in Dallas, Texas, in the areas of Certified Nursing Assistant and Veterinary Technician. A big "Thank You" to HOSA Advisors Toby Garza, Lupe Ramirez, and Lisa Madrigal for supporting our students!

## Health Fair Project Showcase

McLane High School

McLane's Medical Education & Research Academy students have been hard at work creating health fair projects, and recently had the opportunity to display and present on their research. Each grade level focused on a different aspect of health. Freshmen created projects centered around environmental health issues such as air pollution, toxic waste, and over-population. Sophomores explored healthy eating habits as they relate to frequently visited restaurants according to student survey. Juniors and seniors tackled nuanced outlines of chronic diseases including their discovery, proliferation, effects, and treatment. The presentation of projects were then vertically reviewed by peers from different grade levels, providing a valuable opportunity for students to learn from one another and develop their analytical and presentation skills. As a further opportunity to engage others in the community with their topic outside of class time, many pathway students elected to participate in the McLane Community Resource Fair and Open House. This event was themed around community health, and so it was a natural pairing to showcase our students' projects. We look forward to continuing to support our students in their pursuit of knowledge and skills that will help them become successful healthcare professionals.



## VPA Yosemite Experience

Sunnyside High School

Sunnyside Video Production Academy students visited Yosemite National Park to refine their skills filming outdoors and shooting various elements of nature. Students will use time-lapse segments to build a project for their portfolio.

## Regional SkillsUSA Competition

Duncan Polytechnical High School

23 Duncan students will be competing in the Skills USA State competition in April in Ontario, California, pitting their industry skills and knowledge against competitors from all over the state.

Heavy Truck pathway seniors swept the Diesel Equipment competition, with Aidan Camacho placing 1st, Logan Adair placing 2nd, and Angel Aguilar placing 3rd.

Construction junior Irene Torres placed 2nd in Electrical construction wiring, and seniors Nicolas Zamora and Damion Ortiz placed 3rd and 4th, respectively. Construction juniors Adalberto Hernandez-Jacinto, Ivan Guerrero-Hernandez, and Lariah Hernandez placed 4th-6th in Plumbing.

Automotive pathway seniors also swept the Maintenance & Light Repair category, with Oscar Nieto-Jimenez, Alyssa Torres, Rigoberto Espinoza, and Karen Vanthanaphong placing 1st through 4th, respectively. Auto senior Jose Serna placed 4th in Automotive Service Technology, Construction Junior Cristian Rios-Romero placed 5th in Cabinetmaking, and Nursing senior Destiny Cervantes placed 7th in Nurse Assisting.

Welding Junior Samuel Martinez placed 1st in Advanced Welding. Welding seniors Ernesto Garcia, Haley Toscano and Manuel Santos placed 2nd as a team for Welding Fabrication, and freshmen Angel Escoto and his senior teammates Abraham Huizar and Alexander Prado placed 3rd in the same competition.

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