

Career Connected

Career Technical Education Program Spotlights

April/May 2023 – Issue No. 5

Entrepreneur Expo

Center for Advanced Research and Technology (CART)

CART's Digital Marketing and Entrepreneurship Lab (DME) held its tenth annual Entrepreneur Expo on April 14, 2023. The Expo has evolved over the years and has become an opportunity for fellow students, family, and community members to interact with DME students regarding their businesses.

This year 80 DME students participated in the Entrepreneur Expo and sales totaled nearly \$9,000. Food and beverage crowd pleasers this year included homemade tacos, delicious mini-pancakes, and a wide array of refreshing drinks. The huge sweet and savory hits this year were made possible with the students' proudly achieved California Food Handlers Certificates. The clothing, jewelry, and art businesses displayed creativity and skill. This year included several businesses that focused on beauty, organic products, and home goods, including scrubs, floral arrangements, and even locally sourced jars of honey. Several students offered services such as custom drawings, photography, landscaping, sports conditioning, auto detailing, and even music producing.

Leading up to the Entrepreneur Expo, DME students selected a product or service they were personally passionate about. They then developed business plans that covered industry and market research as well as competitor and sales analytics. These foundational steps help stress the importance of becoming knowledgeable before entering into a business as an entrepreneur. Through tedious number crunching, students were able to establish equitable, profitable, and appropriate price points that reflected their hard work and skill unique to each student's business. Students created brand names and logos which corresponded thematically with their websites and social media promotions. This allowed students to really feel a sense of individualized ownership.

As DME students took personal accountability for their businesses, the excitement and confidence they exuded during the Expo was felt by all those in attendance.

Every 15 Minutes

Bullard High School

Bullard High School's Biomedicine and Law and Social Justice pathways put on "Every 15 Minutes", an event in conjunction with the California Highway Patrol to show the dangers of drinking and driving.

Timed to happen just before prom weekend, students were pulled out of class every 15 minutes to show the magnitude of the issue, along with a simulated accident in front of the school involving students. An assembly featuring several guest speakers and a dramatization followed.

Demo Party

Edison High School

Edison High School hosted a “demo party” on May 25 to clear space for a new 31,000-square-foot, two-story building for classrooms and labs. When the building is completed in 2024, Edison will be able to expand its various career technology education (CTE) pathways, including:

- Biomedicine
- Engineering Design and Development
- Green Energy and Technology Academy
- Computer Science
- Teacher Academy

The building will include a robotics workshop, sports medicine lab, state-of-the-art technology labs and a Collaborative Career Center serving all Edison students.

100% of Doctors Academy Grads Headed to College

Sunnyside High School

100% of the graduating Doctors Academy classes at Sunnyside will continue their education at post-secondary institutions in the fall 2023. Approximately 83% have indicated that they plan to pursue a pre-health or science, technology, engineering, or mathematics-related major in college, with 11% indicating a business-related major and 6% pursuing other majors.

Construction Teacher Shines at Fresno High

Fresno High School

Joel Osuna is a highly respected construction teacher at Fresno High School. With many years of experience in the industry, Joel brings a wealth of knowledge and expertise to his role, inspiring and motivating his students to achieve their full potential.

Joel's teaching style is both engaging and effective. He uses a hands-on approach to teaching, which allows his students to learn by doing. He provides them with real-world experiences, such as working on construction projects in the community and working with Grid Alternatives, which prepares them for success in the workforce. Joel goes above and beyond for his students and is always focused and proud of his students.

Fresno State Innovation Summit

Patiño School of Entrepreneurship

Students attended and participated in a pitch competition at the Fresno State Innovation Summit. They listened to guest speakers, watched college student business pitches, and participated in a pitch competition where they won \$150, \$250, and \$500.

Aviation Academy

(Adapted from a GV Wire article. [Read the full GV Wire article here.](#))

Fresno Unified has unveiled plans for a new STEM Aviation Academy & Exploration Center at Chandler Airport in west Fresno, where students will learn how to become a pilot or aircraft mechanic or take on any of a number of aviation-related jobs. The Aviation Academy is believed to be the first of its kind in the nation because it will be on airport grounds. Students will take high school and two-year college courses that will give them a solid foundation for aviation careers through the career technical education pathway.

The aviation center could open as early as the fall of 2025. Plans call for two hangars and an exploration center, where students as young as transitional kindergarten can come for field trips to learn about aviation.

In addition to daily classes — 11th- and 12th-grade students would spend half their school day at the center, the other half at their home high school — and field trips, the center would be used for the district's summer and winter camps. Students may be offered dual enrollment courses through Reedley College's aviation program so they can graduate with their high school diploma and an associate degree, saving thousands of dollars that would otherwise pay for college and training costs.

The program would start out with about 70 to 75 students in a morning session and another 70 to 75 students in an afternoon session, with the capacity for expanding to more students in future years.

"After learning about a forecasted shortage in all aviation-related labor markets and high-skill, high-wage jobs that are projected over the next 20 years, we set out to build a high-interest, highly engaging program that would provide our students access to industry that has the ability to change family and community economic trajectories." Jeremy Ward, CCR Assistant Superintendent

Photo Students Get Real World Experience

Sunnyside High School

Senior photo students in Tamela Ryatt's class captured photos for their portfolios as part of a collaboration with Paul Mitchell cosmetology school students. The students welcomed Paul Mitchell student stylists into their studio for a photo shoot on May 12. Sunnyside students gained experience in fashion photography and Paul Mitchell students gained experience in makeup and styling.

[Watch a video of the Paul Mitchell experience!](#)

Sunnyside Breaks Ground

Sunnyside High School

(Adapted from a Business Journal article. [Read the full Business Journal article here.](#))

Sunnyside broke ground last week on its new medical pathway building that will be the new home of its Health Sciences Pathway. The 12,900-square-foot building will house Health Sciences Pathway classrooms and labs to accommodate more participants and industry-standard equipment to help students be career-ready, competitive in the job market, and better prepared for health-related college study.

The new Health Sciences Pathway building will also house Sunnyside's Doctors Academy. In partnership with UCSF, the academy provides students with services and opportunities that help them explore health careers and become competitive applicants to health professional schools down the road.

Superintendent Bob Nelson says that by expanding the space for the Health Sciences Pathway and being able to provide more services, staff will foster an environment where students will not only learn the valuable skills they need to enter medical school but to become successful health care practitioners and apply those skills to the real world.

[Watch a video of the groundbreaking!](#)

Biomed Senior Olympics

Edison High School

The Edison 12th grade Biomed Team created a collaborative hands-on final for their seniors. They incorporated activities from content that they should have mastered throughout the year. Seniors were divided into 6 teams and each member had to complete the activity at each station. There were 25 stations and 147 senior students participated. This was a great example of their accomplishments and experiences in their pathway. Students had a wonderful time showing their skills and teachers really enjoyed creating the challenges and spending the time with students creating memories.

FCC Future Healthcare Professionals Program

Roosevelt High School

Five Health Pathway students were accepted into the new Healthcare Professionals Program at Fresno City College. Students are: Rosario Perez, Alexander Bustos, Vanessa Sanchez, Ashley Angeles, and Nayeli Covarrubias.

Business Pitch Competition Hosted by Quiq Labs

Patiño School of Entrepreneurship

11th grade students had the opportunity to pitch to judges at the 1st annual Pitch Competition hosted by Quiq Labs. 5 student business teams pitched their business ideas in an effort to win some startup capital to get their business ideas up and running.

1st Place - Apollo Portal won \$2000

2nd Place - Campus Visitour won \$1500

3rd place - Bite Size won \$1000

Campus Visitour also won the People's Choice award for \$500!

Construction Club Builds Doghouse

Kings Canyon Middle School

Kings Canyon Middle School students in Andrew Brant's construction club built a doghouse out of recycled pallets from Fresno Unified. Trust-All Roofing graciously donated all of the roofing materials. Students were able to gain hands-on experience during this process.

CART Goes To The Rodeo

Center for Advanced Research and Technology (CART)

In collaboration with Piranha Productions, CART Multimedia students assisted in video production during the week-long Clovis Rodeo. Students ran cameras for multiple live events such as bull riding, bronco busting, and more. Live coverage was used for the closed circuit broadcast of events on screens throughout the rodeo grounds and was streamed on the Cowboy Channel for national distribution.

Fresno State K-12 Railroad Model Competition

Tenaya Middle School

The Fresno State Transportation Institute held its first railroad model competition on Saturday, April 29th. The competition showed the creativity of the teams in designing their own railroad track models in a way that is fuel and cost efficient and minimum time travelled.

The Transportation Institute provided for free all the materials that participating schools would need for the competition. All teams received various modes of support including professional mentors and coaches, information sessions, instruction manuals, video tutorials, competition guides and more.

Tenaya students Santos Bejarano, Elias Vasquez, Narek Melkonian, Mateo Rodriguez and Julian Lombrana participated in the competition.

Duncan Senior Accepted to Ivy League

Duncan Polytechnical High School

Anna Hun is believed to be Duncan's first student accepted to Ivy League colleges, and she has been accepted to three: Harvard, Dartmouth, and University of Pennsylvania. She was also accepted at Stanford, Duke, Vanderbilt, UCLA, UC Berkeley, UC Irvine, UC San Diego, and to the Smittcamp Family Honors College at Fresno State. She plans to major in human biology with the goal of being a family physician. She is the associated student body president and in the Air Force Junior ROTC program for four years. Out of her options, she elected to attend Stanford.

Sunnyside Senior Selected for New MD Program

Sunnyside High School

Joslyn Conchas has been selected for a new program for high school students committed to a medical career and serving the valley's needs. The senior in Sunnyside's Doctors Academy earned one of just 12 spots out of 1,200 applications. San Joaquin Valley PRIME + BS/MD is an educational pathway partnership between UC Merced, UC San Francisco-Fresno and UC San Francisco. During the 8-year program, students earn a 4-year degree from UC Merced, complete pre-clinical medical training at a UCSF medical campus, and complete their remaining training at the UCSF campus in Fresno.

Breakfast Cookoff Contest

Roosevelt High School

The students were grouped and had to come up with a breakfast. Taste, presentation, menu, and creativity along with cleanliness and following safe guidelines were all part of the judging rubric.

Law and Social Justice Guest Speaker Social

Bullard High School

Bullard's Law and Social Justice pathway hosted a guest speaker social for the 11th grade students. Students rotated around several guest speakers, hearing from federal agencies, local law enforcement, and practicing attorneys.

Then, they got to have lunch with them and continue conversations about how they came into their profession, the day to day experience, and sharing stories and anecdotes from their careers.

Students Compete at Innovation Day

Students in third through sixth grades showcased their engineering and career skills in the District's annual Innovation Day on May 25th at the Save Mart Center. At Innovation Day, students work together in grade-level school teams to solve a design challenge in front of family and friends. They used the skills they learned all year through career-based challenges every month in the Teaching How Innovation Nurtures Knowledge (THINK) Program.

Winners were:

- **Third Grade:** Storey Elementary School — Storey Superstars coached by Kelley Bell; students were Shayna Her, Mannatt Gill, Aaron Lara Torres, and Aria Blair
- **Fourth Grade:** Burroughs Elementary School — Dynamic Broncos coached by Lorraine Gomez; students were Jayla Ramos, Damian Parra, Isaac Lopez, and Leland Hernandez
- **Fifth Grade:** Gibson Elementary School — New Knights on the Block coached by Sara Medina-Baker; students were Alex Ozcariza, Robert Guerrero Jr., Noah Saldana, and Elaine Aquino
- **Sixth Grade:** Kirk Elementary School — Roar coached by Michael Harris; students were Carlton Williams, Alina Aguilar, and Valentin Jimenez

AME and Eco-Tech Pathways go to Yosemite

Hoover High School

On May 16th, 90 students from the AME & Eco Tech Pathways spent the day in Yosemite. After the rain and snow this year we were welcomed by the abundance of waterfalls and wildlife. In AME, Biology students were able to get out of the classroom and learn up close and personal about the ecosystems and the different biomes. Students identified which biome it is and the clear indicator species ID. Students also learned about Sierra Nevada naturalist unit where they will see and ID 60 different species of trees, plants, and animals. In AME Multimedia, students learned about the work of Ansel Adams and stood in the same location his famous photo was taken. In AME English, students brought back ideas from the trip and were asked to creatively write about their experience at the Park.

IMAGO Scholarship Winners

Edison High School

This year, IMAGO offered scholarship opportunities to students that were seniors and who had completed at least 10 of the IMAGO lessons. Three of Edison High School seniors were granted the \$500 scholarship. We want to congratulate Giana Turner and Nathan Thor from our Athletic Training Program and Yaslin Ramirez from our Biomed Pathway!

Sunnyside High School

Jennifer is a senior in the Health Science pathway at Sunnyside. She plans to attend Fresno State in the Fall to continue toward a career in health. Jennifer was awarded this scholarship for her engagement with the Imago platform, which supports career exploration and preparation for students.

2023 Certified Pathways

Congratulations to our pathways and programs that earned recognition and certification for demonstrating high-quality practices! [For more information, visit our website!](#)

Linked Learning Silver

- Duncan Polytechnical High
 - Innovative Design and Applied Technology Academy (IDATA)
 - Medical Academy of Science and Health (MASH)
- Edison High
 - Biomedicine
 - Engineering Design and Development
- Hoover High
 - Arts, Media, and Entertainment
 - Eco-Technology
 - Public Service
- McLane High
 - Academy of Finance and Entrepreneurship
 - Medical Education and Research Academy (MERA)
- Patiño School of Entrepreneurship
 - Business, Entrepreneurship, and Technology
- Roosevelt High
 - Health Academy
 - Public Service
- Sunnyside High
 - Agriscience and Technology
 - Health Sciences
 - Multimedia and Marketing

NAF Certified Academy

- Bullard High
 - Biomedicine
- Edison High
 - Biomedicine
 - Computer Science Program
 - Engineering Design and Development
- Fresno High

- Construction, Design, and Architecture Technology (CDAT)
 - Warrior Entertainment
- Roosevelt High
 - Health Academy
- Sunnyside High
 - Health Sciences
- McLane High
 - ArtVenture (Fast Track)

NAF Model Academy

- McLane High
 - Academy of Finance and Entrepreneurship

NAF Distinguished Academy

- Duncan Polytechnical High School
 - Medical Academy of Science and Health (MASH)
- McLane High
 - Medical Education and Research Academy (MERA)

LAPSEN Accredited

- Bullard High
 - Law and Social Justice
- Hoover High
 - Public Service
- Roosevelt High
 - Public Service

CPA Distinguished and Lighthouse Academy

- Edison High School
 - Green Energy and Technology Academy

PLTW Distinguished School

- Bullard High
 - Biomedicine
- Edison High
 - Biomedicine

Medical Pathway Celebrates Another Successful Senior Cohort

McLane High School

As the 2022-2023 school year comes to a close, the Medical Education & Research Academy has had much cause to celebrate our students. Of particular note is their remarkable academic achievement as half of this year's valedictorian class at McLane was made up of seniors from the pathway. Further elevating this achievement is the fact that many of these students maintained excellence in the classroom while also successfully completing over two-hundred hours of internships in healthcare settings, and earning certifications in OSHA Industry Safety and Health, Stop The Bleed, Basic Life Support, and Medical Assisting.

To graduate with these distinctions is a testament to our students' rigorous determination, exceptional endurance, and inspiring eagerness to become college and career ready. In the past weeks McLane has seized several opportunities to celebrate these students before they walk across the stage including class reflections, extracurricular activities, rallies, ceremonial banquets, and awards of scholarships. Common at each of these celebrations is a tenet of what our CTE programs are all about: students contextualizing their learning experiences and excited to share their plans after high school.

VPA Explores Universal and Warner Brothers Studios

Sunnyside High School

Video Production Academy (VPA) students toured two of the most famous studios in Hollywood, including a working sound stage and production set. This capstone trip gives students the opportunity to apply the knowledge they've learned throughout the year.

River Reflections at San Joaquin River Parkway

McLane High School

In what has become an annual tradition, McLane's ArtVenture Production Academy recently hosted our culminating event to showcase projects from the year. This serves as an opportunity for students to plan and run the event production, exhibit their talent through media, or simply enjoy the show which feels like an entertaining evening retreat experience thanks to the beautiful venue on Old Friant Road.

River Reflections included student-created paintings on canvas, ceramic wind chimes, photography, short films, spoken word, and a keynote address from California Poet Laureate Lee Herrick. Additionally, this year's showcase was further made special by the premiere of Literate Voices projects where pathway-linked English teachers empowered students to publish books of their own collective writing. The inclusion of this literary piece with the artistic talent of our students was a powerful vehicle to display their exceptional storytelling abilities centered around the event theme of mental health.

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