

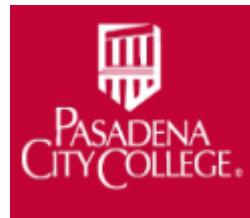
4th Annual Career STEAMposium

Careers of the Future – Full STEAM Ahead

Gamma Zeta Boule Foundation

Alpha Kappa Alpha Sorority, Inc. – Pasadena Chapter

Sponsored by



March 16, 2019

4th Annual Career STEAMposium

The 4th Annual Career STEAMposium took place on Saturday, March 16, 2019 at Pasadena City College. There were over **300** students and parents in attendance at this year's event that exposed youth to professionals in STEAM Careers. Workshop Speakers shared their backgrounds and brought them forward to their current roles so students knew that they could also succeed in STEAM careers. A major message that was consistent throughout many of the workshops was the careers of the future are unknown today so prepare yourself, find what you enjoy, believe in yourself and be a lifelong learner. Below is information on the Keynote Speaker, the workshops and the hands-on activities. The day was successful as youth enjoyed the workshops, and all the activities.

Many students commented on how they enjoyed the sessions, the conversations with the professionals, the Hands-On Activities and the information. They also appreciate how they have a chance to ask a lot of questions. Some direct quotes in the evaluations were:

- “I really appreciated/ enjoyed when I introduced myself to Dr. Scott, Dr. Murphy and everyone else. They made me believe in myself more knowing that I want to become a cardiothoracic surgeon. I will be reaching out to them.”
- “I enjoyed learning how I can better myself and having a great time learning about how math is in everything.”
- “I enjoyed the Art Speech the most because it got me inspired and thinking about my future.”
- “I enjoyed the knowledge given to us and how well the presenters gave us the information.”
- “It was the Robotics part because I got to know more of how they work. It was really interesting.”
- “The smaller groups toward the end were really helpful because they allowed us to ask questions to the professionals that we were specifically interest in. Everything was overall extremely insightful!”

Thank You to Our SWAG Bag Contributors

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***The Boeing Company &
The Rucker Family***

Cal Poly Pomona

Ellen's Silkscreening

Fender

***JP Morgan Chase
Commercial Term
Lending***

***Metropolitan Water
District***

STEAM:CODERS

Public Figures Welcomed the Students:



Kathryn Barger, LA County Board of Supervisors



John Kennedy, Pasadena Vice Mayor



Asm Chris Holden

Keynote Speaker

Ramsey Jay, Jr. – Topic: **How To Be Irreplaceable While Embracing The Future Of Innovation**

Ramsey Jay, Jr. is a distinguished Wall Street trained finance executive and dynamic speaker. His decade of global investment management experience includes expertise in high yield bonds, bank loans, distressed credit, private debt and private equity. He consults in the areas of organizational development and leadership development. Mr. Jay has created and delivered a lecture series at investor conferences, private companies and academic institutions. He has spoken about professional development and leadership to nonprofits, colleges, high schools and police departments. He gave opening remarks at a White House event during President Obama's tenure. Mr. Jay has received awards from numerous groups – including Ebony magazine and the Consortium for Graduate Study in Management. He volunteers extensively and serves on various boards. He serves as the President and an Archon of the Gamma Zeta Boule Foundation of Sigma Pi Phi Fraternity. His academic, civic and athletic exploits led to his election to the Ventura High School Hall of Fame. Mr. Jay earned a bachelor's degree in Business Administration from Cal State University Fresno where he competed in track and held leadership positions in student finance organizations. He earned an MBA from the Tuck School of Business at Dartmouth College where he received the Jack Welch Award for Excellence in Management Communications and was voted graduation speaker. He has been an active, honored alumnus of both of his alma maters.



Workshops

Science

This engaging workshop was led by **Dr. Anthony Murphy, Jr.** and **Dr. Maurice Hale**.



- **Dr. Murphy** is a Hospitalist/Internal Medicine physician for Dignity Health Medical Foundation Group. Dr. Murphy currently practices at Northridge Hospital Medical Center in Northridge, California with a focus on a wide range of acute illnesses afflicting the adult population. Dr. Murphy was born and raised in Milwaukee, Wisconsin and went on to complete his undergraduate studies with a double major in biochemistry and Spanish at Florida A&M University. He completed his medical training at Indiana University as a medical student and Internal Medicine resident.

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- **Dr. Hale** is the President of the Board of Certified Radiologists. He leads the Diagnostic Imaging Network and has a host of doctors in the radiology imaging field at his disposal. Maurice speaks about the lack of “people of color” in his field and encourages those interested in medicine to pursue radiology as a career choice.

Technology

This innovative workshop was led by **Chester Hawkins** and **Lanny Smoot**.

- **Chester Hawkins** graduated from Loyola Marymount University with a BS in Computer Science. Chester currently works for the world's largest content delivery network, Akamai, as a software development engineer. He loves technology and keeping up with the latest tech news. When Chester's not at work, you can find him making mobile apps as well as teaching a team of middle school kids how to build and program robots in order to compete in the national Botball competitions.



Engineering

This inspiring workshop was led by **Ferris Harvey** and **Raymond Ealy**.

- **Ferris Harvey** works in the Phantom Works Advanced Space Exploration organization at Boeing Corporation. He is focused on design and integration of sub systems within the Experimental Space Plane platform. Ferris is a recent graduate of the Engineering Career Foundation Program (ECFP) Class of 2017, a two-year, enterprise-wide leadership and technical skill rotational development program across Boeing Commercial Airplanes, Engineering Operations and Technology, and Boeing Defense, Space and Security. He is a



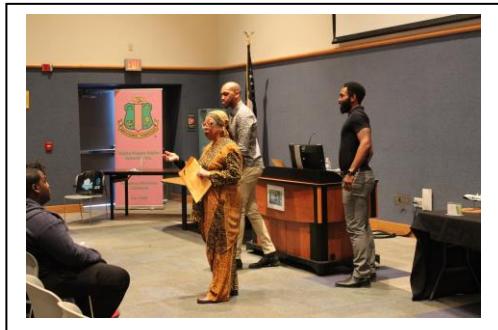
graduate of Howard University with a B.S. Mechanical Engineering degree, and is currently pursuing his Masters in Aerospace Engineering from UCLA.

- **Raymond Ealy** is the Founder of STEAMCODERS, an organization that focuses on teaching underrepresented and underserved K-12 students of color the fundamentals of Science, Technology, Engineering, Art and Math. Their Mission is to unlock the potential of each participant through an educational and enjoyable curriculum focused on logic, critical thinking and problem solving skills. Raymond believes in making sure our youth are exposed to opportunities and looks forward to sharing.

Arts

This creative workshop was led by **Andrew Law** and **Latham Ford**. They will highlight how STEM skills are used within artistic and entertainment industries.

- **Latham Ford** is an Executive Producer, Writer & Director that is Los Angeles based. He founded an award winning Film & TV Production Company called “No Idea Films, LLC.” He’s most known for his award winning film, “Daddy’s Big Girl,” which he produced & wrote. It won the highest honor, BEST FILM in the: Gentleman’s Jack Daniels & Code Black Films “Reel to Reel” Film Festival, held annually in Miami, FL.



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- **Andrew Law** is a Free Lance Lighting Programmer. He earned his Bachelor of Arts in Theater with an emphasis in Design and Technology from Indiana State University. Through Production Resource Group (PRG), he has worked on various projects such as the Grammy Awards, Beyonce Formation Tour, and Universal Studios Halloween Horror Nights/Grinchmas. Through Walt Disney Parks and Resorts, as an Entertainment Technician/Lighting Programmer, he has worked on various shows such as the ABC Holiday Special, The Nighttime Fireworks Spectaculars, and was a member of the Grand Opening Lighting Team for Shanghai Disney. He continues to work on Projects and Shows for PRG and Disney as well as many television shows. He is looking forward to sharing and answering questions on how lighting makes the magic in the Entertainment Industry.

Math

Math is the foundation for everything. This workshop was led by **Ed Magee** and **Michelle Saywell**.

- **Ed Magee** believes that **Math is Music to Our Ears**. He brings over 25 years of diverse work and life experience to his current role as Senior Vice President of Operations at Fender Musical Instruments Corporation, one of the world's leading musical instrument manufacturers, marketers and distributors. Prior to Fender, he worked at Harley-Davidson, a company with an incredibly passionate consumer base and a true sense of purpose. With this background, he moved to Fender, another company with immense passion, purpose and history. Magee spent the early years of his professional life flying the A-6E Intruder and the F/A-18 Hornet for the United States Marine Corps where he earned a rank of Lieutenant Colonel. Math is key to music. Join this workshop to see and possibly play Fender instruments while you're learning the math of music.



Michelle Saywell graduated from the University of Michigan with a Bachelor of Science degree in Applied Mathematics. She works for the global firm of Konica Minolta Business Solutions as a Senior Account Executive where she provides solutions for data capture, access, production, management, and security. She uses math, interpersonal, sales and marketing skills to work with businesses all over the world to solve problems for her customers and drive revenue for her company. In her spare time, she volunteers to help various communities throughout the Los Angeles area.



Hands-On Activities

Roboheroes

Operated Rover Ruckus and participated in First Challenge Robot Game

Team Sprocket – Diamond Bar High School

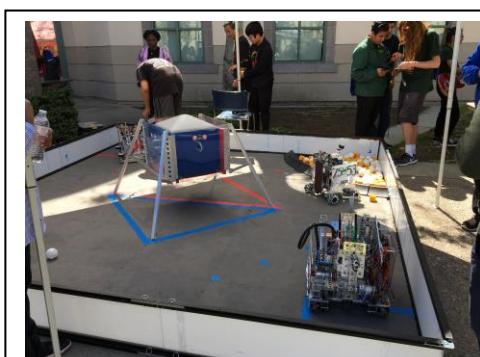
Saw this Team's 2019 Robot and did interactive activities that helped students learn how to build a robot.

Team Wolf Corp

Drove a 34 pound Robot that can land and lift itself up.

Team Droidnaughts – Monrovia High School

Saw this Team's 2019 Robot and do interactive activities that helped students learn how to build a robot.



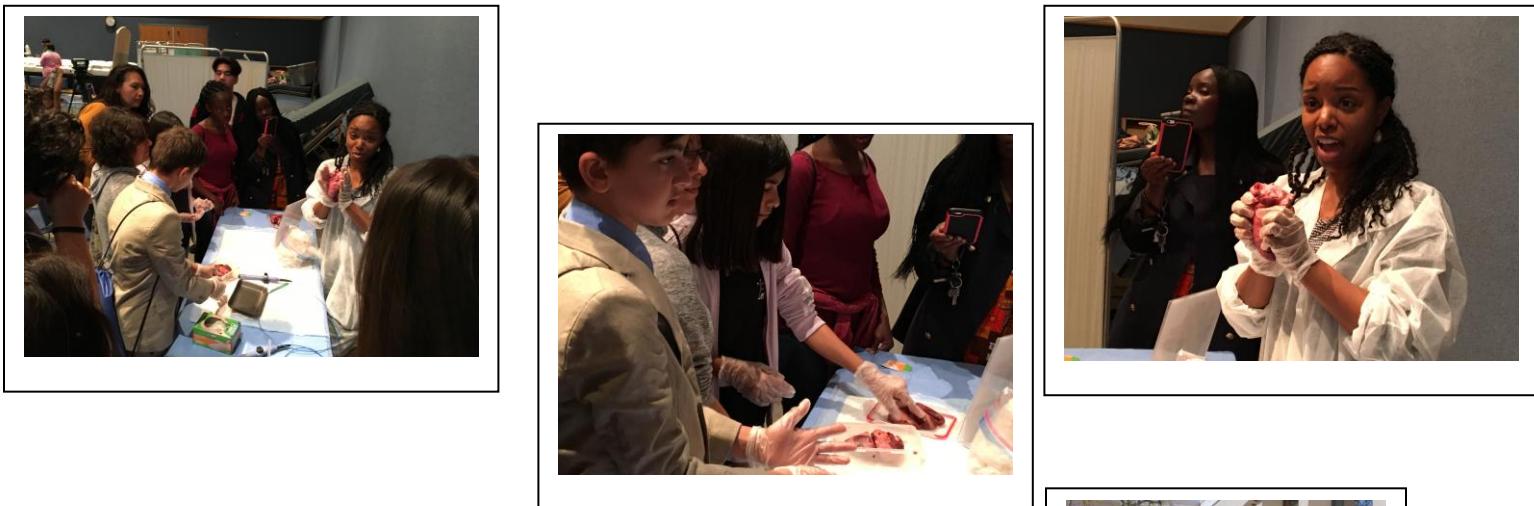
Virtual Reality – AT&T

The IT CAN WAIT virtual reality simulator provided audiences with an immersive, 360° experience that shows the potentially deadly consequences of smartphone distracted driving. The video simulates the movement of the eyes-off-the-road and hands-off-the-wheel experience of texting while driving, causing the vehicle to swerve.



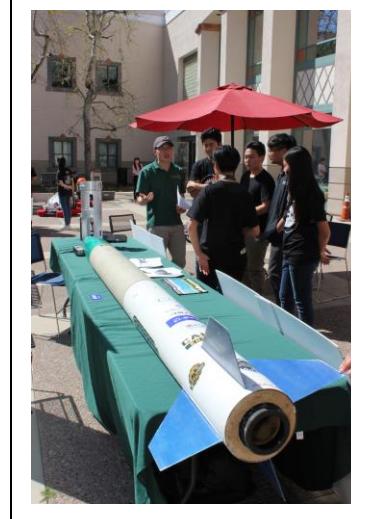
BioSense Webster – Johnson & Johnson

Dr. Tara Gomez-Hampton had students observe heart tissue dissections and observe how some of the devices they develop at Biosense Webster work.



Liquid Rocket Lab

Student engineers and scientist discussed their project of building a rocket and rocket engine to win the FAR-Mars competition. This rocket runs on liquid methane and liquid oxygen to fly to 45,000 feet and eventually go to space in competition with other schools around the country! At this booth the students learned more about this project and how to build rockets from scratch.





Formula SAE – Cal Poly Pomona

Cal Poly Pomona has their award winning Formula SAE car on display. At this booth, the students saw some engine components and various parts that were machined in their CNC Mill. They learned how they designed, manufactured, and tested their own race car from the ground up to compete and win competitions.



The Women of Alpha Kappa Alpha Sorority, Inc. – Pasadena Chapter



4th Annual Career STEAMposium - Press Release – Final

Careers of the Future – Full STEAM Ahead!

The 4th Annual Career STEAMposium was recently held at Pasadena City College. Over 300 students and parents took advantage of this program that exposes middle school to Community College students to Professionals in all aspects of STEAM, provides hands-on STEAM related activities and ensures conversations and networking with the STEAM Professionals.

This workshop is important because students of today are studying for unknown careers of the future. With technology advancing at an increasing pace, careers in STEAM related fields are in great demand. The only constant that our students are guaranteed is Change. In order to address this and help our youth be prepared for the careers of the future, they must be exposed now to opportunities in STEAM.

During the day, the students attended two of five workshops where they learned the journeys of the Science, Technology, Engineering, Arts and Math Professionals in each workshop. In this setting, they asked questions and learned how they too could one day aspire to be anything that they want.

Feedback from one student was, “I really appreciated when I introduced myself to Dr. Scott, Dr. Murphy and everyone else. They made me believe in myself more as I want to be a cardiothoracic surgeon. I’ll be reaching out to them.”

Another student that attended the Math Workshop said that he learned how he can better himself and had a great time learning how Math is in everything. Another student with a passion for math, stated his passion has been reinforced, and he looks forward to it growing. One of the guest speakers, Ed Magee, works for Fender. He explained how math impacts music, and one lucky attendee went home with a Fender Guitar.

Part of the day included Hands-On Activities – Robotics, Virtual Reality, Biosense Webster, Cal Poly Pomona SAE Race Car and Rocket Lab. Students experienced the danger of driving and texting with AT&T’s Virtual Reality It Can Wait simulation. Students learned about the award winning rocket and car built by students at Cal Poly Pomona. Some local Robotics programs were also represented. One student comment was, “I got to know more on how robotics works and it was really interesting.” Students in previous years have been inspired to start a Robotics Club at their schools after attending this event. Exposure is truly the key. If we want students to be interested, we need to help them learn what they don’t know.

The day finished with small networking groups where the students asked questions of the Workshop and Hands-On Activities representatives in a more intimate setting. Overall feedback was this event opened eyes and the students are interested in learning more as they possibly pursue careers in STEAM related fields.

This event that prepares our workforce of the future for the jobs of the future is sponsored by The Boeing Company, Northrup Grumman, Southern California Edison, AT&T, Pasadena City College, the Gamma Zeta Boule Foundation, the Pasadena/Altadena Ivy Foundation and the Pasadena Chapter of Alpha Kappa Alpha Sorority, Inc.