

**Gamma Zeta Boulé Foundation &
Pasadena Chapter of
Alpha Kappa Alpha Sorority, Inc.**

Presents the

5th Annual Career STEAMposium

**STEAM Crosses All Color
Barriers and Never
Goes Out of Style**

**Saturday, March 20, 2021
8:30 AM - 1PM
Virtual**



Science

Science 1

Dr. Richard Allen Williams is the Founder of the Association of Black Cardiologists, is a cum laude honors graduate of Harvard University. He subsequently attended the State University of New York Downstate Medical Center where he received the M.D. degree in 1962. Dr. Williams was formerly the Head of Cardiology at the West Los Angeles VA Hospital. At present he is a Clinical Professor of Medicine at the UCLA School of Medicine (full Professor), where he has been a faculty member for over 40 years. Dr. Williams is a noted author and founder of the Minority Health Institute, which focuses on educational programs to teach doctors about cultural competency, diversity, and healthcare disparities.

Dr. Valencia Walker is a neonatologist in Los Angeles, California and is affiliated with multiple hospitals in the area, including UCLA Medical Center and UCLA Medical Center Santa Monica. She received her medical degree from Emory University School of Medicine and has been in practice almost 15 years. She is one of 20 doctors at UCLA Medical Center and one of 15 at UCLA Medical Center Santa Monica who specialize in Neonatal-Perinatal Medicine. Medical Board Certifications: Neonatal-Perinatal Medicine, American Board of Pediatrics, 2008, 2015, Fellowship: Cincinnati Children's Hospital Medical Center, 2003-2006, UCLA School of Medicine, 2011-2013, Residency: Pediatrics, University of Tennessee College of Medicine, 2000-2001 & 2001-2003, Emory University School of Medicine, MD, 2000.

Science 2

Kai A. Littlejohn received her B.S. degree in Chemical Engineering from Tuskegee University in 2018. Following graduation, she worked at the U.S. Food and Drug Administration National Center for Toxicological Research (FDA-NCTR) as an intern in the Nanotechnology Core and then as a research assistant in the Office of Women's Health. She is currently a clinical researcher at City of Hope Comprehensive Cancer Center. Her work involves patient accrual to clinical trials, laboratory analysis of patient specimens, and youth outreach through the COH STEP Program. In the Fall of 2020, Kai will be joining the Wallace Coulter Department of Biomedical Engineering to pursue her PhD in BME

Dr. Anthony Murphy, Jr. 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. Dr. Murphy is also a proud member of the Alpha Phi Alpha Fraternity, Inc. and Gold Humanism Honor Society.

Technology

Technology 1

Lanny Smoot is a Sr. Research Scientist at Walt Disney Imagineering's Research and Development organization. Lanny has held leadership positions in telecommunications research at Bell Labs, Bellcore, and Telcordia. At Bell, among other things, he designed some of the first fiber optic, and video-on-demand systems. Lanny spent 10 years in Walt Disney Imagineering's Research and Development organization where he led R&D groups that focused on innovative sensing techniques, human computer interaction, robotics, imaging, and special effects systems for the Disney Parks. At Disney Research, he has helped create new 3D displays, robotic, and ride, systems. Lanny holds both Bachelors and Masters Degrees in electrical engineering from Columbia University. He has earned more than 75 US Patents for his work. This is sure to be an exciting workshop that integrates technology with innovation and entrepreneurship.

Technology 2

Chester Hawkins graduated from Loyola Marymount University with a BS in Computer Science. Chester currently works for NASA JPL where he is a Senior Software Systems Engineer a working on the current mission to Mars Project. 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.

Sharelle Jones is a Systems Analyst in Information Technology Services in enterprise Solutions Delivery for City of Hope National Medical Center. On weekends, she is a Hack-A-Thon challenger. At night, she's the co-founder of a Tech start-up that while in its infancy is already receiving acclaim.

Engineering

Engineering 1

Henry B. Dotson III, P.E. is currently President and Principal Consultant at Mandla Solutions, Inc. where they provide consulting services to the utility industry to help clients develop Smart Grid architecture solutions. Henry serves as a US Technical Expert member of the international standards body working group that develops the utility industry's Common Information Model (CIM). He earned undergraduate degrees in electrical and mechanical engineering simultaneously at Cal Poly Pomona. Henry is a licensed Professional Engineer (Electrical), registered in the state of California.

Justin Jones is a graduate of California State University Fresno, where he earned a BS in Civil Engineering. Justin is a Registered Civil Engineer who works for Los Angeles County Public Works. Justin served on the City of Pasadena Integrated Resources Planning Committee to help guide future decisions, increase procurement of renewable energy and reductions in Green House Gas emissions. Mr. Jones is actively involved in his community where he has served as chair on the City of Pasadena Human Relations Commission, as an executive board member of his neighborhood association and the Vice President of his homeowners association.

Engineering 2

Heather O'Rourke is a Logistics Quality Engineering Supervisor. Mazda North America Operations. Education: Technology & Operations Mgmt. Cal Poly Pomona College of Business. Core Competencies: Lean Processing, Quality, Operations/Supply Chain, Gemba, leadership. Background: 10 years of Automotive experience in Quality Operations for Parts and Finished Vehicles at Field, Regional, National and Global levels. Passions: Quality, Operations, Business, Education/Students, Women Services, church affiliated leadership; being a helping hand.

Adaora Okwo Okoro, PhD Adaora Okoro is the Senior Project Manager in the Office of the CEO at Edison International, parent company of the utility Southern California Edison (SCE). Prior to joining Edison International she worked as an Energy Market Advisor in the Energy Procurement & Management organization at SCE. She has a bachelor's degree in Operations Research & Financial Engineering from Princeton University and a PhD in Industrial & Systems Engineering from the Georgia Institute of Technology (Georgia Tech). She is excited to share how the power of math and engineering can help solve problems like minimizing the cost of providing electricity to all customers, optimizing the use of battery energy storage systems, decarbonizing the economy and more!

Arts

Arts 1

Latham Ford is a Los Angeles based, Film & TV Executive Producer, Writer & Director and Talent Manger for "TenXTalent" Mangement Agency. He attended Ball State University. He founded an award-winning Film & TV Production Company called, "No Idea Films, LLC," where he is most known for his film, "Daddy's Big Girl," which he executive produced & wrote. "Daddy's Big Girl," won the highest honor, "BEST FILM" at the Gentleman's Jack Daniels & Code Black Films "Reel to Reel" Film Festival. He produces content for: commercials, music videos and branded concepts; on a variety of broadcast and digital platforms. As he continues his journey in entertainment, his main focus is developing film, where he is currently in pre-production on an upcoming film project.

Kristin Ford is the co-founder of "TenXTalent" Management Agency where she is the Public Relations Executive; working events, projects, and/or collaborating with other PR agencies. She attended Eastern Illinois University. As a PR she has worked with other Projects/ events/ celebrities (i.e. Dick Gregory Hollywood Walk of Fame Induction with Clarke & Associates, Stevie Wonder wedding, and Annual Celebrity Toy Drive hosted by Nate Park & Hill Harper).

Arts 2

Dexter Tanksley is a Disney Imagineer and Senior Project Manager in the Project Management Portfolio responsible for translating the ideas of the creative team into dimensional attractions and rides at Disney theme parks worldwide. This includes working with professionals from a variety of disciplines – from writers to artists and engineers – to understand and manage creative concepts from ideation through final construction. He earned his Bachelor's Degree in Architecture at Hampton University. He is an associate member of the American Institute of Architects. This will be an entertaining and informative workshop where you will learn how artistry meets technology.

Kurt Farquhar is currently the music director for the TV show The Neighborhood. He is a Los Angeles based television and film composer, songwriter, producer, and founder/CEO of True Music, a prominent music licensing company. He has scored more primetime television series than any other African-American composer throughout his 30-year career. In early 2018 Farquhar entered the superhero genre with the launch of CW's Black Lightning. Kurt is a seven-time BMI award winner, four for his work on The King of Queens, two for Being Mary Jane, and one for The Game. Farquhar was called 'the musical voice of BET' for his work on genre-defining series for the network for shows like American Soul, Games People Play, The Quad, Being Mary Jane, Real Husbands of Hollywood, and In Contempt. Kurt credits his incredible productivity to the fact that ever since he was a child he says, "I hear music all the time." He is looking forward to sharing with everyone that joins his workshop.

Math

Math 1

Ruben Miranda is an Industrial Mechanical Engineer graduated from CESUES in Mexico. He is currently the Vice President of Advanced Manufacturing in Fender Musical Instruments Corp, one of the world's leading musical instrument manufacturers, marketers and distributors. As an engineer and passionate guitar player he believes that math, science and music not only go well together, but also have deep intrinsic connection. They're made for each other, the scientific method is not only an academic tool but is continually used and applied to improve all aspects of manufacturing operations. From an automotive industry background he has since held varied roles in Fender, including Engineering, Manufacturing and Artist Relations.

Ewurabena Mensa-Wood Coker Operating Assistant, where she is responsible for the safe and reliable operation of the Coker unit at the Chevron El Segundo refinery. She joined the Chevron Corporation in 2013, and has held various leadership positions in the Operations, Technical and Maintenance & Reliability organizations. She spent 11 years in the Nuclear Industry where she worked in numerous engineering roles at the San Onofre Nuclear Generating Station. Ewurabena has a passion for aviation and is a licensed private pilot. She holds a Bachelor's in Aerospace Engineering from Queen Mary College, University of London, and a Master's in Engineering with emphasis in Mechanical Engineering from California State Polytechnic, Pomona. She also holds a Professional Engineering (Mechanical) license. She was recognized in May 2019 by the Los Angeles Council of Black Professional Engineers as one of the 50 Phenomenal Black Women in STEM .

Math 2

Jovita Jenkins is an Aerospace Engr. (Ret.), UCLA BS & MS in Math. She is a west coast Hidden Figure, Strategy Coach, Leadership Development Consultant, Speaker, Educator, STEM advocate, serial entrepreneur, and author. Jovita began her professional career as a trail-blazing woman in aerospace when the industry was in its infancy and there were very few women in the engineering ranks. Major programs that she supported include the B-1 Bomber, Space Shuttle, Space Station and more. Now she helps others master the skill sets needed to more effectively lead in organizations, startups, and small businesses, manage challenging situations and people, transition to new roles and responsibilities, and overcome roadblocks to their success.

Michele Saywell is Senior Account Executive for Konica Minolta Business Solutions 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. She graduated from the University of Michigan with a Bachelor of Science degree in Applied Mathematics. In her spare time, she volunteers to help various communities throughout the Los Angeles area and relaxes by doing Salsa dancing.

Hands-On Activities

1. **Cal Poly Pomona: Bronco Motorsports CPP Formula SAE**, Formula SAE (FSAE) is a collegiate design competition providing University students with the challenge to conceive, design, fabricate and compete with a small formula-style racing car.
2. **Cal Poly Pomona: Liquid Rocket Lab Team**: The purpose of the Cal Poly Liquid Rocket team is to establish a Liquid Rocket Lab to expose students to the advancement of design and educational practices in both liquid rocket propulsion and structural design
3. **Diamond Bar High School Robotics Team "Team Sprocket"**: The theme of this activity will be **How Robotics Works**. This activity will be lead by high school students who delight in sharing how to build a Robot from nuts to bolts and discuss why they got into Robotics
4. **Dr. Tara Gomez-Hampton -Biosense Webster**, a Johnson and Johnson company. Dr. Tara Hampton stated that she can have students perform heart tissue dissections---and can have them work some of the devices they develop at Biosense Webster.
5. **Making of a Fender Guitar -Ed Magee** –Math is Music to Our Ears –Ed Magee 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 (FMIC), one of the world’s leading musical instrument manufacturers.
6. **Azusa Pacific –Gaming Program -Tim Samoff** –The title would be: “What goes into the making of The Game”. He will show photos and videos of what its like in the gaming environment when the gamers are “creating”. He wants to talk more than show videos because his videos are limited in duration (1~2 minutes).
7. **JPL Planetary Protection Center of Excellence -Dr. Alvin Smith** –This activity will feature a representative from JPL that will highlight the **Mars Sample Return Project** that is currently in progress.