

Cypress College
NASA Community College Aerospace Scholars
(NCAS)

August 1-4, 2022



NCAS Fall 2022 Student Agenda

Agenda is subject to change at anytime.





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Monday, August 1, 2022

Day 1 / Mission-2 Commencement Day

7:30 a.m.	Check-in/Breakfast (CCCMPLX 414)
8:00 a.m.	Welcome & Meet the Staff President, Dr. Joanna Schilling V.P. of Student Services, Dr. Paul de Dios Interim Dean of SEM, Dr. David Vakil Dean of Counseling, Dr. Troy Davis
8:30 a.m.	NCAS Welcome
9:00 a.m.	Team Norms
10:15 a.m.	Networking & Elevator Speeches
11:00 a.m.	NCAS Welcome Projects Overview & Rover Introduction
Noon	Lunch
1:00 p.m.	Team Time (6 hrs.)
3:00 p.m.	Afternoon Snacks Available
6:00 p.m.	Working Dinner
7:00 p.m.	Team Time (1.5 hrs.)
8:30 p.m.	Debrief & Logistics
9:00 p.m.	Due to HQ: Statement of Work, Progress Report, Organization Chart, Company Name, Logo, and Motto

(Individual NCAS Participant Profile Picture throughout the day.)



Tuesday, August 2, 2022

Day 2 / University Tour & Competition 1 -STEM Spirit Day

7:30 a.m.	Check-in / Breakfast (Meet at Parking Lot 8)
8:00 a.m.	Depart for University CSU Long Beach
9:00 a.m.	Science / Engineering Lab Tours of CSULB
12:00 p.m.	Depart Cypress College
1:00 p.m.	Lunch at (CCCMPLX 414)
1:00 p.m.	Group Photo
2:00 p.m.	Internship Presentation (NCAS)
2:30 p.m.	Team Time (2 hrs.)
3:30 p.m.	(Afternoon Snacks Available)
4:30 p.m.	Rover Competition 1 (CCCMPLX 414) (Red & Green Teams)
5:00 p.m.	Rover Competition 1 (CCCMPLX 414) (Blue & Gold Teams)
5:30 p.m.	Pause & Learn (30 min.)
6:00 p.m.	Dinner & Intern Panel
7:00 p.m.	Team Time (1.5 hours)
9:15 p.m.	Due to HQ: Progress Report #2



Wednesday, August 3, 2022

Day 3 / Industry Tour Day & Competition 2

- | | |
|------------|---|
| 8:00 a.m. | Check-in / Breakfast (Meet at Parking Lot 8) |
| 9:00 a.m. | Bus Departs to Orange County Water District |
| 10:00 a.m. | Tour of O.C. Water District |
| 12:00 p.m. | Bus Departs to Cypress College |
| 12:30 p.m. | Lunch (CCCMPLX 414) |
| 1:30 p.m. | Special Guest Speaker - Chris Cervellone |
| 2:30 p.m. | Team Time (3.5 hrs.) |
| 3:30 p.m. | Afternoon Snack Available |
| 6:00 p.m. | Rover Competition 2
(Gold & Green Teams) |
| 6:30 p.m. | Rover Competition 2
(Blue & Red Teams) |
| 7:00 p.m. | Dinner (Pause & Learn) |
| 8:00 p.m. | Reports due to HQ: Progress Report, Overall Budget Spread-sheet |
| 8:30 p.m. | Debrief & NCAS T-Shirt Distribution |



Thursday, August 4, 2022

Day 4 / Mission-2 Team Colors Day

- 8:00 a.m. Check-in / Breakfast ([CCCMPLX 414](#))
- 8:45 a.m. Final Presentation & Final Report Due to HQ
- 9:00 a.m. Team Presentation (Red Team)
- 9:15 a.m. Team Presentation (Blue Team)
- 9:30 a.m. Team Presentation (Gold Team)
- 9:45 a.m. Team Presentation (Green Team)
- 10:00 a.m. Team Debrief & Reflection (30 min.)
- 10:30 a.m. Group Photo
- 11:00 a.m. Special Guest Speaker - Junnior Rodriguez
- 12:00 p.m. Recognition Ceremony

Dr. Joanna Schilling, Cypress College President

Sharon Quirk-Silva, CA State Representative, 65th District
(*Tentative*)

- 1:00 p.m. Lunch
- 1:30 p.m. Debrief & Reflection (30 min.)



NCAS



Mentor Biography



Mark Farrow-Reid

Engineer

Mark Farrow-Reid was born in Red Hill, England, and moved to Ontario, California in 1982 at the age of 16. He attended Chaffey College in Alta Loma, California, and then California State Polytechnic University, Pomona, where he graduated with a B.S. Degree in Physics in 1988. After graduation, he worked as a radiation technician for ICN Pharmaceuticals processing dosimeters and as an Industrial Hygienist for CTL overseeing asbestos removal from clients' properties. Since 1990 he has been an Engineering Technician in the Water Quality section of the County Sanitation Districts of Los Angeles County in Whittier, California, where he does data and sample collection of ground water wells. Since 2000 as the Senior (lead) Engineering Technician he also repairs and calibrates sampling equipment. Between 1983 and 1993 he also volunteered at Planes of Fame Air Museum in Chino, California, where he helped maintain and restore antique aircraft. In addition to his life long interest in aviation, Mark is also an avid motorcyclist (on both road and race track) and mountain biker. These interests have helped him hone his mechanical skills. He currently lives in Rancho Cucamonga, California.



Mentor Biography



Abel G. Peña

STEM Author

I graduated from UC Irvine with degrees in both English literature and in philosophy. I am a published author, mostly of science fiction stories that take place in the *Star Wars* universe, including creating the foundations for the Mandalorians, the basis for the popular Disney+ show *The Mandalorian*. I have conducted many years of research in quantum mechanics with the guidance of the Chancellor's Professor of the Logic and Philosophy of Science department at UC Irvine, Jeffrey A. Barrett, and received an acknowledgment for my contributions in his most recent book, *The Conceptual Foundations of Quantum Mechanics*. I also recently participated in multiple phases of the NASA Community College Aerospace Scholars (NCAS) program and in a NASA internship analyzing the integration of artificial intelligence into aviation systems. My interests in math, physics and computer science continue to grow, but currently I am most interested in applying to a philosophy of science graduate program and in continuing to work with NASA.



Mentor Biography



Geoff Begg-Herbert

Mechanical Engineer

I am a former Cypress College student and California State Polytechnic University, Pomona graduate in Mechanical Engineering. Since graduating, I have spent years working as a Manufacturing Engineer and Production Manager in various industries. While working, I decided to continue my education and obtained an MBA to further my business understand while expanding on my technical view of business. I now work as a Program Manager at a small Aerospace manufacturer managing their engineering team and new product introduction.

When not at work, I am a homebody who enjoys baking and spending time with my wife of 6 years. I am very much looking forward to working with students associated with the NCAS conference and giving back to Cypress College. I loved my time at Cypress and I am a firm believer it helped set me up for most of my successes I have had so far.



NCAS



Speaker Biography



Chris Cervellone

Environmental Engineer

I graduated from Manhattan College in 1977 with a BS in Civil Engineering. My major was in Environmental Engineering. My career with OC San steered me into the Design and Construction of many of the facilities built and rehabilitated during the late 1970's thru 2017. I am currently retired but enjoy mentoring college students when time allows. I was an Engineering Supervisor overseeing the Construction Management of major Capital Improvement Projects in both treatment plants and their collection pipelines and pump stations.

Mr. Cervellone has given dozens of tours of the OC Water District (OCWD) water treatment plant and even during retirement. The Orange County Water District is a special district that manages the groundwater basin beneath central and northern Orange County, California. The groundwater basin provides a water supply to 19 municipal water agencies and special districts that serve more than 2.4 million Orange County residents.



NCAS



Speaker Biography



Junnior Rodriguez

Mechanical Engineer

Junior Rodriguez, a Cypress College Alumni graduated with honors in 2017 with Associate Degrees in Automotive Technology, Math & Science and Physics. While at Cypress College, Junior was highly involved as a Supplemental Instruction Leader for Calculus 2, (STEM)² Peer Mentor, founded the STEM Study Lounge, worked a tutor at the Math Learning Center, founded the President of the Leaders of Tomorrow Club, and created the STEM Scholar Student Success Handbook, and Vice-President for the Engineering and Physics Club. He recently obtained his bachelors from Cal Poly San Luis Obispo for Mechanical Engineering in 2022 and currently working as an Automotive Project Engineer for Holley Performance Products in Bowling Green, Kentucky. He was nicknamed the “SEM Savior” by the Cypress College President, Bob Simpson, after his pivotal speech at the 2017 Board of Trustees Meeting in support for the funding of the new Science Engineering Math (SEM) Building. During his free time, he enjoys cooking, coaching baseball and working on cars.

NCCAS

Emergency Numbers



Campus Emergency Line
714-484-7387



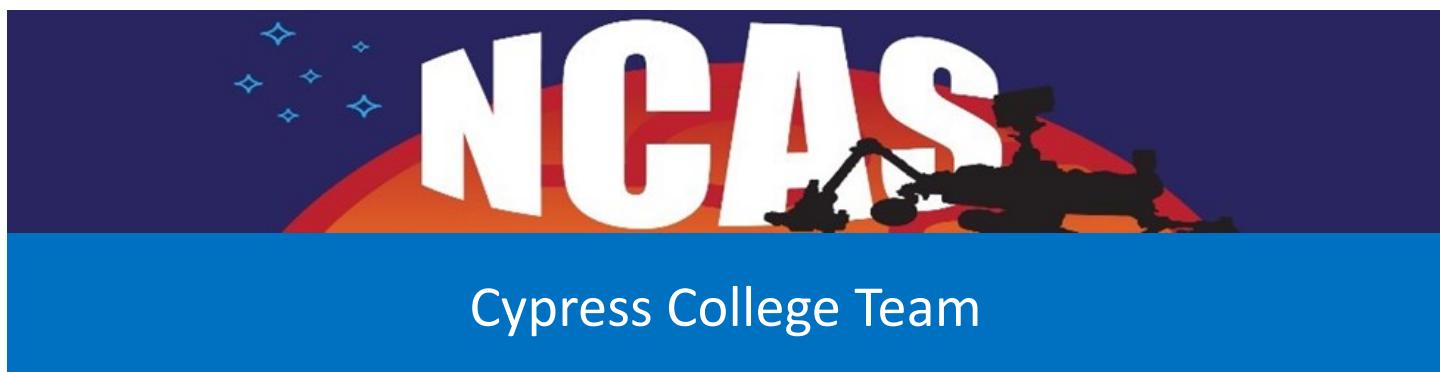
For updated information, visit the campus website at CypressCollege.edu.

Revised: February 8, 2022

MAP GOOGLE LIVE



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