



SAME

Space Coast Post

Jul - Sept 2018
3rd Quarter

Build Then Design

INSIDE THIS ISSUE

1. Build Then Design
3. Monthly Meetings
4. Post News and Announcements
4. Mark Your Calendars

Our 2018 SAME Summer Camper, Teddy Brunger, provided the Post with an entertaining discussion of his week at the US Air Force Engineering and Construction Camp. It was impressive to hear him describe what they did, what they learned and the real life applications. Teddy's plan is to pursue a degree in mechanical engineering, but after many of the Camp activities, he may take a closer look at Civil Engineering.

Day 1 Orientation: A warm welcome by Colonel J. Christ, Head of the USAFA Department of Civil Engineering. The Colonel spoke to the students about how camp week was going to require full group cooperation and collaboration. And a little bit of PT and fun.

Day 2 Concrete Beam Construction, Water Treatment and 3-legged Chair

What we learned: Concrete = compression, Rebar = tension, Sand = filter, Charcoal = pigment remove, and Strongest Chair = Strongest Base.

Real-life applications: The strongest beam is dependent on placement of rebar and width/length/height. Water purification can be done using very limited materials. The integrity of a structure relies on its base.

Day 3 USAFA Lab Tour, Catapult and Cardboard Canoe

What we learned: Mach 6 Ludwig Tube, 45° angle is optimal, weight affects distance travelled, and flat bottom more stable than v-shaped.

Real-life applications: Evaluate the reaction of aircrafts at high speeds. The canoe shape affects speed and a flatter bottom is more stable. The balance of both, give the best results.



Build Then Design (Cont'd)

Day 4 Engineering Firm Tours and Engineer Reaction Course

What we learned: Design then build. Deadlines must be met.

Real-life applications: Different 3D models of the same project helps plan the optimal design. Build fast but not in a hurry.



Day 5 Dog Kennel Construction and Sprinkler Systems

What we learned: Elevated structures protect against natural forces. More sprinkler heads equals less pressure

Real-life applications: The only type of dog house that will not get wet inside during a storm is an elevated one.



Day 6 USAFA Admissions Tour and Water Balloon Launch

What we learned: What it takes to apply to the USAFA. Did our catapult work optimally?

Real-life applications: Work hard to exceed the requirements. Catapult angle and balloon weight affects travel distance.



Day 7 0600 PT and Concrete Beam Destruction

What we learned: Push-ups, sprints, running, exercise, and formation. Did we have a strong beam?

Real-life applications: Don't forget to exercise. Strategically place rebar diagonally throughout length of beam for best outcome.



"Thank You SAME for an unforgettable experience this summer. I cannot thank you enough for allowing me the opportunity to attend the 2018 SAME Camp at the USAFA! The camp ended today and I am already missing the new friends, fun activities and all of the learning from the professionals. This is a picture on campus ... on my way home.

Teddy Brunger, Melbourne Central Catholic, Class of 2020

Monthly Meetings

July: Improving Deliverables from the Beginning

Compiling the necessary components for a quality design is paramount for a successful project. Being proactive in document preparation from the project's beginning can actually drive success by reducing risk factors such as scheduling, budget overruns and liability. Blood Hound Business Development Manager, Paul Peterzell explained the difference between public and private utility locating, and how locating ALL underground utilities and structures affects various stakeholders at different phases of projects – contributing to overall project completion and high-quality project deliverables. Paul provided interesting anecdotes about the industry and answered questions about industry, methods and technologies.



August: Troubled Waters - Connections and Consequences, St. Johns Riverkeeper Webcast

All of Florida's waters are connected, and so are the forces that are overusing and polluting them. The only parts of the water picture in Florida that are not connected are the wishes of the citizens to the actions of the State's leaders. In "Troubled Waters: Connections and Consequences," we found out how the St. Johns River, its springs and its tributaries are a bellwether for the health and future of Florida's economy and the consequences we will all face if we don't change the way we treat our Troubled Waters. Troubled Waters was produced by Ray Hays and PRC Digital Media, and funded by St. Johns Riverkeeper. The production is the 2017 Winner at the Cinema Verde Film Festival.



September: TRUE Zero Waste Certification

Jason Teliszczak, JTEnvironmental Consulting, Inc.

The TRUE Zero Waste certification system enables facilities to define, pursue and achieve their zero waste goals, cutting their carbon footprint and supporting public health. TRUE is a whole systems approach aimed at changing how materials flow through society, resulting in no waste. TRUE encourages the redesign of resource life cycles so that all products are reused. TRUE promotes processes that consider the entire lifecycle of products used within a facility. With TRUE, facilities can demonstrate to the world how they minimize waste.



Post News

September: Come Grow With Us – 2018 Update Eastern Florida State College (EFSC) Foundation



Below is our annual update on the health of the EFSC Endowment.

Donations since inception:	\$52,500.00
EFSC Foundation matching funds:	\$27,500.00
Permanently restricted net assets:	\$80,000.00
Earning since inception:	\$60,721.36
Scholarships awarded:	(16,075.00)
Temporarily restricted net assets:	\$44,646.36
Total net assets – June 30, 2018	<u>\$124,646.36</u>

This year's scholarship recipients say thank you.

I am beyond grateful to have been selected for the SAME Engineers Endowed Scholarship. Thanks to your generous support, achieving my academic goals are well within reach. Without the amazing support from donors, some dreams may go unrealized. So I want to express my sincere gratitude for this amazing scholarship. – Stuart

Thank you so much for helping me in completing my education. This scholarship will be a major help for me. It is a great feeling knowing there are people willing to help me reach my goal. Supporting a family with 3 children and going to school can be very challenging. Scholarships help ease the stress and give me encouragement to keep going. - Justin

Mark Your Calendars

October: NASA Business Opportunities Expo 2018

When: Tues, Oct 23rd
Time: 9:00 to 3:00 pm
Where: Cruise Terminal 6
Port Canaveral



For More Information call 321-867-7353 or e-mail Ksc-smallbusiness@mail.nasa.gov.

October/November: Small Business Conference

From SAME National: We are pleased to announce that this year's SAME Small Business Conference is co-locating with the Department of Veteran's Affairs' National Veterans Small Business Engagement, connecting small businesses directly with federal government procurement decision makers, contracting officers, small business liaison officers, and leaders. The event will also bring together small businesses with large businesses that have teaming and sub-contracting opportunities in support of government work. The SBC and NVSBE will share an exhibit hall, networking events, and educational sessions. Participants can freely attend any activity taking place throughout the three days.

P.S. Plan on stopping by booth 1057. A few of the sustaining members from the Space Coast Post will be setting up a "block party" style exhibit booth and you definitely don't want to miss it.



GOLF GOLF GOLF
18th Annual Scholarship Golf Tournament
When: Friday, November 2nd
Where: Cocoa Beach Country Club
Time: Check-in at 7am
Shotgun Start at 8:30am



Golf Social: Thursday night from 6 – 8pm @ Courtyard Marriott.

For details, contact Kyle Brown (kbrown@DRMP.com) or Roger Sevigny (rsevigny@alleneng.net).