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○ April 2017

○ www.samerobins.org



THE FLYER



Newsletter of the Robins AFB Post: Society of American Military Engineers

Preview of the April 2017 SAME Presentation. This presentation will be given by Mr. Jeff Krecic of Turkuh Technologies and is titled, "Commercial Drones: Capabilities and Limitations in the Current Regulatory Environment".

This presentation will focus on the capabilities of commercial unmanned aerial vehicles (UAV's). Drones are all the rage. However, there are lots of confusion and misconceptions about them. The discussion will cover FAA regulations governing the professional use of UAV's. The state of current technology and applications will be addressed and well as what the future may hold.

What will be covered:

- What are unmanned aerial vehicles?
- What is the current state of the regulatory environment regarding UAV's?
- What are the capabilities and limitations of UAV's?
- What can they do better than traditional methods?
- How accurate is the data?
- What are the typical cost savings?



Come join us for the presentation at the our next general meeting scheduled for 19 April!

SAME Events

23-25 May: Joint Engineer Training conference & Expo (Columbus, OH) - Grow your professional Knowledge! Over 70 education sessions are available to help you increase your skills and competitive advantage both personally and professionally. Please visit: <http://s3.goeshow.com/same/jetc/2017/index.cfm> for find more information on this fabulous event!

20-22 August: Post Leaders Workshop (Location TBD) - Please visit: <http://www.same.org/calendar/ModuleID/6303/ItemID/1311/mctl/EventDetails> for a draft program schedule.

SAME National Focus Areas

1. Ensure Vibrant and Value Added Programs—Create Value for All
2. Support STEM—Share Your Passion, Grow Your Replacement
3. Focus on Veteran Transitions—Help 6,000 military transition from Service over the next 4 years

Presenter's Bio



Mr. Krecic is a licensed pilot and former United States Air Force command and control specialist whose expertise lies in the acquisition, geolocation and processing of aerial GIS data. His experience includes sensor operator for DMC and LiDAR, flight/project planning, 3D digital mapping, spatial analysis, project estimation and project management.

Mr. Krecic holds a bachelor's degree in aviation from the University of Central Missouri, a master's degree in management from Baker University and a master's in geography from the University of Kansas.

SAME Spotlight: Member of the Month

Colonel James P. Hickman is the Command Civil Engineer, Headquarters Air Force Reserve Command, Robins AFB, GA. He is responsible for the planning, design, construction, maintenance, and operations of all facilities and systems for the Command.



Col Hickman is a 1992 Air Force ROTC distinguished graduate of Kansas State University in Manhattan, Kansas, with a Bachelor of Architecture. He has served in a range of civil engineer and career broadening positions at base level, numbered Air Force, major command, Air Staff and various intelligence mission partners. While at the Pentagon, Colonel Hickman performed flying wing operations analysis of fighter, cargo, and SOF units and then helped define future Air Force capability requirements via the AF CONOPS. He served as the Baghdad regional Facility Engineer Team Commander. He was the Air Base Group deputy serving with the NSA community at RAF Menwith Hill, UK. He oversaw execution of a \$2B global construction program and contributed to the legacy of the famous Red Tails as the 332 Mission Support Group Commander, leading 7 squadrons.

Go Baby Go Build Day, Part 2



The second Go Baby Go Build Day was held on the 24th & 25th of March at Mercer University's School of Engineering. Partnering with the Mercer Engineering Honors Program and the Robins AFB SAME Student Chapter, a few of our post members including our current President and Vice President attended this awesome event! There were about 30 students helping with building these modified toy cars for children with limited mobility, and the group was able to build 12 cars.

The Robins SAME Post can't wait for the next Build Day and will let our post members know when the next one will be scheduled. Hope to see you there!



The next Robins Post General Meeting will be held on **19 April 2017 at 11:30 am**. The meeting will be held **OFF BASE** at the China buffet (605 Russell Parkway, Warner Robins 31088). All are welcome.

UPCOMING DATES FOR 2017:

19 April: 1130 Hours: SAME General Meeting immediately preceded by SAME Robins Post Board/Officer's Meeting. TEPA will be giving a presentation on the UAV program.



17 May: 1130 Hours: SAME General Meeting immediately preceded by SAME Robins Post Board/Officer's Meeting. A presentation by MERC will be given. Topic TBA.

21 June: 1130 Hours: SAME General Meeting immediately preceded by SAME Robins Post Board/Officer's Meeting. HIS will be giving a presentation on Engineering and Safety standards.

19 July: 1130 Hours: SAME General Meeting immediately preceded by SAME Robins Post Board/Officer's Meeting. HQ AFRC will be presenting their annual Program Review.

SAME Hosts Appreciation Luncheon



Members of the SAME Atlanta Post hosted an appreciation luncheon for the clean-up team at the MCLB Albany following the deadly and destructive tornadoes that hit the Base and surrounding area in February. Additional support for this special outreach event came from SAME Savan-

nah, **SAME Robins AFB**, and SAME Fort Benning. A catered BBQ Lunch for 80+ people, plus a quick game of Weather Bingo lightened spirits and created some fierce competition for the last two flashlight prizes! We were so honored to meet, show our thanks, and break bread with this group of hard working men and women. The Atlanta SAME Post wish to say Thank you to our fellow Georgia Posts for your support!

SAME MISSION

"To provide education and support to the engineering components of the military and uniformed services, and other federal, state and local government agencies responsible for the nation's infrastructure, and to advance the partnership between government and the architecture, engineering and construction industry in the interest of national security."

SAME VISION

"To be a premier global engineering organization leading the professional and personal growth of all members in support of military readiness and development of solutions to national security challenges."



Sustaining Member Spotlight:

Donald, Garrett & Associates, Inc.

Donaldson, Garrett & Associates, Inc. is a Land Surveying and Consulting firm offering a full range of Land Surveying services.

Founded in 1991, DGA's primary service included surveying and site design services across Middle Georgia. In 1997 DGA opened a branch office in Charlotte, NC which allowed DGA to expand services to the southeastern United States. DGA continues to enjoy its long term relationships with architectural and engineering, federal, state, local government, utility, pipeline/transmission line, commercial chain, prime contractor, manufacturing, mining and construction clients and numerous private development firms across the southeast. DGA holds professional registration in eleven (11) states. DGA has served as the State of Georgia Land Surveyor for the Department of Interior, US Fish & Wildlife Service.



DGA, headquartered in Macon, GA with a branch in Charlotte, NC, has a staff of twenty associates with 6 Registered Professional Surveyors and 5 fully equipped, experienced Field Survey Crews. Safety is First at our firm. DGA qualifies as a Small Business under NAICS 541370.



For more information about our company, please visit:
<http://www.dg-a.com>.

President's Corner

"STEM" is gaining "STEAM"

Last month, March 24-25, Society of American Military Engineers (SAME) partnered with Mercer University in the annual "Go Baby Go" project, achieving several objectives at once.



First, the event gathered mentors, faculty, university scholars, and therapy students together to help build specific toy cars to meet the needs of physically challenged children positively impacting ten families in our community. They joined together to modify eleven toy cars. On Friday, the engineering teams pre-assembled and began basic modifications to the vehicles. The faculty then created slides with directions for the therapy students to finish the electrical modifications based on their needs.

With preparations made, Saturday was a buzz of efforts. Therapy students worked under the mentorship of engineering faculty and SAME mentors to finish the electrical wiring and begin the more complicated modifications. Once all the cars were "baselined," the university engineer teams met with the physical therapist partners and the children. This is where the "magic" really happened. The children would sit in the vehicle and orient themselves to the controls. The therapists engaged the children and assisted in communicating the limitations each child had and physical enhancements required to best accommodate safety and physical support for the child. This also enabled various aspects of child development.

The teams received amazing and exciting instant feedback from the families and children. As the young "drivers" scooted around the court floor, smiles and laughs ensued. The joy and happiness of the children and their families grew from the success of each modification made. The buzz of electric car motors and excitement filled the air. Clear satisfaction of improving people's lives was evident in the eyes of the Mercer students, their mentors and the families benefiting from the experience.

During problem solving and modifications, I took the opportunity to chat with our future engineers. It was thrilling to hear about their different backgrounds and interests. I asked them about their thoughts on the Science, Technology, Engineering, and Math program known as STEM and how they thought could improve. With each individual story, a common theme arose: the lack of artistic expression. This theme focused on the source of inspiration in the problem solving process of engineering. Each student talked about their various artistic expressions and how that influenced their ideas. Some of the students described their love for drawing and painting. This allowed for them to imagine the improvements to existing technologies. Others shared their love of music and how it served as a bridge to solve complicated math problems. Others also, described the performing arts and how participation in them dissolved social barriers enabling interpersonal skills critical to customers and clients.

These informal discussions coupled with the successes demonstrated by personal interaction with the children and therapists highlighted the need to transition to STEAM (insert the "Arts" to STEM). Through history, we see the catalyst of innovation sources from the arts. The arts are emotional expressions and bonds serving as a driving force to solve the most complicated and technical problems. Steam locomotives, aviation, computing, architecture, material improvements, entertainment technologies, communication technologies, to name just a few all have roots to this source. This next year and beyond, by our team adding the "A" to STEM, will perhaps enable us to bridge the gap of young minds who might initially be intimidated by science, technology, engineering and math, unintentionally creating barriers for their own development by telling themselves, "I can't do that," "it's too hard". We've all heard the phases before. Now we are seeing a tool we've always had, the arts, to enable effective collaboration and stimulating game changing advances in our world. Let's add the "A" catalyst to our equation and see what happens to our numbers of inspired young minds. Look out, innovation may explode exponentially!

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Accepting Abstracts

We are accepting abstracts for presentations for 2017. Let us know what presentation topics, presenters, or tour ideas would most interest you. We want to know what is important to you. Please contact Mr. Joe Ballard at: joe.ballard.1@us.af.mil with feedback or for more information.