Message from the Chair

Happy Spring, Young Members! First off, hopefully everyone is aware the Joint Engineer Training Conference & Expo, otherwise known as JETC, is coming up May 24-26 in Phoenix, AZ. If you’ve never been to JETC, the program includes an amazing combination of professional development, mentorship, and fellowship, culminating an incredible year of service by the Posts and throughout the Society with our annual awards and Society Ball. It is truly our profession’s family reunion, bringing together thousands of people from all branches of military and public service, as well as our partners in the private sector. We’re excited to have a robust YM program throughout the week including speed mentoring with SAME Fellows and numerous opportunities for networking and fellowship (not to mention a ton of fun) and I really hope you decide to join us. Reduced price registration closes April 22nd, so be sure to register today (www.same.org/JETC).

The new 2020 SAME Strategic Plan is heavily focused on engaging YMs and challenging us with professional development, mentorship and leadership opportunities to lead our Society beyond 2020. Over the last few months, I have witnessed numerous instances of YMs stepping up for SAME that serve as an encouraging reminder of the exciting path we’re on towards the future.

I was pleased to see two of our extremely active YM leaders, Gia Huynh-Ba and Ben Matthews, step up and volunteer to run for the YM position on the SAME Board of Direction. It takes a lot of guts and commitment to step up like that and I’m proud to have both of them active on the YMC. Ben was also recently inducted as the only YM in the 2016 Class of SAME Fellows. His selection caps off years of SAME leadership and involvement and represents a significant milestone in his lifetime of mentorship and service.

Evidence of YMs stepping up are all over SAME. I’m excited to have Omar Oweis give a webinar on May 4th about the ground-breaking Young Member Initiative the Houston-Galveston Post recently started. I was also fortunate to serve on one of the JETC topic submission review boards and thrilled several YMs were selected to give presentations at JETC as well.

Finally, I am so excited about the work being done by a group of YMs and a few former YMs on the YMC Membership Task Force. For the last month this group of 20 people has been meeting in smaller subgroups to help us develop our understanding of four distinct categories of YMs (i.e. NCOs, Officers, Public Sector Civilians, Private Sector) in order to improve SAME’s abilities to recruit and retain YMs. A lot of folks have dedicated significant time and thought to this initiative and we’ll be excited to share the outcomes and recommendations in the near future.

If it’s not too obvious, I am extremely optimistic about the direction of SAME and encouraged on a daily basis by the dedication, contributions and excitement of YMs throughout the Society. I hope to see many of you next month in Phoenix and please don’t hesitate to let us know if there’s anything the YMC can do for you or your Post.
Congratulations to the following Young Members who were awarded full stipends to attend the Joint Engineer Training Conference & Expo next month in Phoenix:

- SPC Alexander Kirchhoff, ARNG – Cape Fear Post/Coastal Carolina
- Zakary Payne, P.E. – San Antonio Post
- Matthew Matteson, E.I.T, G.I.T. – Omaha Post
- Tammy Rice – Baltimore Post
- Arnold Blanton – Rhein-Main Post
- Omar Oweis – Houston Post
- LT Christopher Paek, USAF – Mount Tacoma Post
- Elizabeth Parent, P.E. – Houston Post
- Terri Sciarro, P.E. – Charleston Post/Savannah Post/Atlanta Post
- SMSgt Anthony Bourdeau, USAF – Robins AFB
- Matthew Turner – Greater Kansas City Post
- James Blake - Philadelphia Post

SAME had the largest number of applicants ever so congratulations to these 12 deserving recipients and all the other active SAME YMs who were nominated!
Ben Matthews, P.E., Atkins, Named SAME Fellow

SAME Young Member and active YMC leader, Ben Matthews, PE, was recently inducted into the 2016 class of SAME Fellows. Ben has been an SAME member for 13 years and is one of our most active Young Members to date. While in the Air Force, Ben first got involved with the national Young Member Council in 2005 as its Secretary. After transitioning to the private sector in 2007, Ben served as the national College Outreach Committee Chair.

During his three-year tenure as the College Outreach chair, Ben nearly quadrupled the number of student chapters from 11 to 39. He was also the major catalyst in the implementation of SAME’s successful social media initiative. Ben created the LinkedIn SAME group, which now has almost 11,000 members and the Young Member subgroup of almost 1,000 young professionals. For his College Outreach and YM Council efforts, Ben earned the President’s Medal in 2010.

At the local Post level, Ben earned the Ohio Valley RVP medal and was twice named Dallas Post Young Member of the Year for K-12 outreach efforts. Ben was elected as 2014 Dallas Post President and led the Post to Distinguished Post status.

Ben is a proven leader in the private sector as well, serving as the Air Force Division Manager for Atkins North America. He was recently selected as a 2015 Engineering News-Record “Top 20 under 40” performer for his accomplishments.

We asked Ben for some of his insights about what led to this distinguished honor: “I was once told by an early mentor that you get out of SAME what you put into it. While this is true for most volunteer organizations, I believe it is especially so for SAME. There are so many opportunities for young members to get involved at their local posts or on national committees or councils. When someone asks, ‘What’s in it for me?’ the list is extensive. Training, certifications, access to engineering leaders that you would never meet otherwise, relationships with our fellow young professionals across the military and private sector, and most importantly helping develop the next generation of engineers and architects that will help move SAME forward into the next centennial. While I do have a nice Fellows pin to wear at SAME events now, there have already been so many rewards up to this point. I look forward to staying involved as a ‘young’ member and providing some continuity with the initiatives that have improved over the years.”

The YMC would like to congratulate Ben on this well deserved and distinguished recognition. Only 2% of all SAME members have been inducted as Fellows and it is outstanding to have one of our own young members join this group.

www.same.org/JETC

Register by April 22 and save $100!

We’re excited for another action packed YM Program at JETC:

Tuesday, May 24th:
9:30am-11:30am: Combined YMC & College Outreach Committee Meeting
12:00pm-1:00pm: YM & Fellows reserved tables for the Opening General Session w/Keynote Luncheon
4:30pm-6:00pm: Speed Mentoring Session w/SAME Fellows (Led by Col Mickey Addison)

Wednesday, May 25th:
8:00am-9:30am: YM & Fellows reserved tables for the General Session w/Keynote
6:00pm: YM Hospitality Event Tour

Thursday, May 26th:
8:00pm-12:00am: YM tables at the Society Ball Dinner & Awards Gala
Members of the SAME Guam Post, along with the engineering firm GHD, Inc. teamed up to plan and organize the 2016 Engineer’s Week school presentations and activities. Professionals from various engineering disciplines on island in the public, private and military sectors dedicated their time during the week of Feb. 22-26 to present aspects of their engineering career to middle school and high school classrooms.

Approximately 37 classroom presentations were conducted throughout the week by 25 volunteer presenters, 14 of which are SAME Guam Post members. Presentations were a great way to enlighten students and provide insight into the engineering profession, what it takes to become an engineer, how engineers affect everyday life, type of projects and problem solving involved, and the rewards of being an engineer. Some presentations included a fun, hands-on activity for the students to understand some of the engineering designs and processes.
Baltimore Post Celebrates Another Successful Day with an Engineer in 2016

By Blaine Linkous, SAME Baltimore Post

As a part of National Engineers Week 2016, 14 local engineering offices hosted over 70 high school students for “Day with an Engineer” on February 24. This program, sponsored by the SAME Baltimore Post, involved showing the high school juniors and seniors what real world engineers do on a daily basis. Over the past five years, the Baltimore Post has been able to grow the program each year to more than double the student participation that we had in 2011.

This year’s students came from 20 high schools located throughout the Baltimore region, most of whom expect to study engineering in college. The students spent the morning on the design floor being introduced to different departments within each firm through brief staff presentations. Around lunchtime the groups enjoyed lunch courtesy of the volunteer firms. This allowed all of the presenters and the students to interact on a less formal basis.

The Day with an Engineer program was also a great way to let future engineering students know about the many college scholarship opportunities the SAME Baltimore Post provides. Several students who have completed the Day with an Engineer program have even secured internships with volunteer firms. The program is truly a win-win for the students as well as the volunteer firms. Several generous firms such as JMT, RMF, and EBL made monetary contributions to help defray the costs of the program as well as sponsoring students for the day.

As part of the morning session, WBCM presented the Emergent Biosolutions Facility Expansion, one of our recent civil and structural projects, to three Towson High School students. This project, located at Johns Hopkins Bayview, is a multi-story flu pandemic vaccine manufacturing facility. WBCM arranged for a tour of the operating facility and the current construction project after lunch. The students received a presentation on vaccine manufacturing from one of Emergent’s chemical engineers, and were able to tour the clean rooms, and supporting facilities that allow for the synthesis of the needed vaccines. The students were very inquisitive and asked a lot of good questions during the tours. The students received a souvenir bag courtesy of WBCM.

Gannett Fleming’s Baltimore office hosted four high school students from Carroll County, Maryland. The students enjoyed a tour of the Relay Elementary School construction site. Gannett Fleming also provided one-on-one sessions with engineers of varying disciplines from water to electrical. EBA Engineering exposed the students to some hands on training in their materials testing laboratory and took a field trip to the Cox Creek Dredge Materials Containment Facility.

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This year, EA Engineering, Science, and Technology, Inc. hosted 20 students and provided them with a real-life learning experience. Tasked with completing a mock environmental project, the students experienced a full day of activities, which included performing experiments at EA’s ecotoxicology laboratory, participating in field equipment demonstrations, researching available information, and collaborating with EA scientists and engineers. At the end of the day, the students put the skills they learned to the test and presented their solution to an EA professional, acting in the role of client for the mock project. “It was fantastic to interact with such highly motivated students,” said Regina Cagle Irl, P.E., Environmental Engineer, who led EA’s efforts. “The focused activities provided them with an appreciation for the level of teamwork and technical expertise necessary to complete a project. It is our hope that many of these students were inspired to pursue a STEM education.”

JMT’s office hosted nine students from Dulaney High School in Timonium, MD, to get a first-hand look at what engineers do. The students met with representatives of their MEP, Facilities-Construction Management, Special Projects, Highways, and Natural & Cultural Resources groups. They also had lunch with more than ten staff members, and were able to ask questions about colleges and career paths.

All students participating in the program received a commemorative t-shirt courtesy of SAME. The SAME Baltimore Post is proud to do our part to develop future engineers. After all, the future of our profession depends on them.
In celebration of National Engineers Week, the Huntington Post hosted its 23rd Annual Engineering Career Day (ECD) on February 25 on the campus of Marshall University. Over 140 of the area’s top high school sophomores with an interest in STEM majors and careers were in attendance. Students had the opportunity to participate in hands-on workshops including computer-based bridge design, floodplain simulation, unmanned aerial vehicle (UAV), and exhibitor booths presented by engineering firms and universities. This event continues to be an outstanding avenue for STEM outreach in the West Virginia/Kentucky/Ohio Tri-State Area.

In addition, the Huntington Post Young Members hosted its annual social networking event. This year’s event included over 30 people, including Post Board members, Sustaining member representatives, and Marshall University student chapter members.

The SAME Baltimore Post recently toured the academic facilities at USNA and the students did a lab exercise using Archimedes principle to calculate displaced volume and weight of a vessel. We toured the labs looking at the engine test cells, biometrics, wave tanks and wind tunnels. Additionally, we toured several projects to see things in various stages of work:

1. The Gate 3 reconstruction to see a construction project just starting.
2. The Parking Garage to see some larger scale structural work and concrete placement.
3. The new Medical Clinic to see a facility well into construction, including standing in a partially finished elevator and seeing what makes it work, walking large volume HVAC equipment and seeing multiple items of work in various stages from seeing what is in the walls to finishing the walls.
4. We finished with a windshield tour of stormwater quality and quantity improvement projects at the Perry Center.
The SAME Hampton Roads Young Members Committee has been busy this year scheduling events geared towards networking and mentoring of the young members and our student chapter post at Old Dominion University. At the beginning of the year, the Co-chairs for the Young Member committee put out a survey to all of the Hampton Roads Post Young Members in order to gauge the thoughts of the group as it related to events/topics they would like to attend, as well as preferred locations and times of day. Based on the information gathered, the Co-chairs have been scheduling a variety of events that have included professional development presentations as well as social/networking happy hour events.

On January 28, the SAME Hampton Roads Young Members hosted a Professional Development/Networking & Mentoring Event on Virtual Reality which was presented by RS&H. This event was Young Member hosted, but open to all SAME members and non-members to attend.

Virtual reality software is a tool that RS&H has been utilizing for years now and have found that it is very effective in helping clients/users better envision and plan their projects. Being able to “walk around” in the design of their projects has allowed for clients/users to make adjustments early in the design process, eliminating major design changes or modifications late in the design process.

Virtual Reality has been around since the 60’s, but had poor quality and was very expensive at the time. The military further developed this technology through simulators, and in the 2000’s, the technology emerged to the public.

The current visualization techniques, such as Revit BIM models, renderings, walk/fly through and 360 views, are great tools that provide clients/users the opportunity to see their projects, but Virtual Reality provides an enhanced visualization, allowing for clients and users to virtually walk through the designs of their projects. This software can be used for design projects such as buildings, airports/terminals, and transportation/transit projects.

Ultimately, Virtual Reality is an immersive multimedia, computer simulation that is user controlled. It allows individuals to interact with a virtual environment. The individual puts on a virtual reality headset which is connected to the Oculus Rift. The individual then uses a controller, such as an Xbox game controller in order to navigate through the design plans.

The future of Virtual Reality is expected to allow multiple users to interact with one model at the same time, as well as animate objects inside the virtual environment that users can control. Different methods of user input is also being developed that will allow the user to navigate the system.

This presentation allowed the attendees to see the software, as well as try it out for themselves! Attendees were also able to view different plans in Virtual Reality to compare a 35% design to a 100% design plan in the software.

Following the presentation, attendees went to the local Buffalo Wild Wings to continue networking and mentoring.
Upcoming YM Professional Development Call

Did you know the YMC offers quarterly Professional Development Calls (PD Calls) throughout the year? Please mark your calendar for our next PD call on **Wednesday, June 1st, from 12:00 PM to 1:00 PM EST**. We are excited to have as our guest speaker NoVA Post President, COL Joe Manous, USA (Ret.), P.E., PhD, to discuss "Professional and Ethical Development of the Design Professional". This is a fantastic opportunity to learn from an accomplished engineering leader and nurture your skills to enhance your careers. And best of all, SAME members will receive one (1) FREE PDH for participating in the call!

To join, simply go to [https://www.spiderphone.com/75303076](https://www.spiderphone.com/75303076) or dial 1-212-812-2800 and enter access code: 7530 3076.

If you have any questions or need additional information, please contact our Programs Vice Chair, Erin Weatherly, at erin.weatherly@us.af.mil or Assistant Programs Vice Chair, Madhu Karri, at Madhu.Karri@terracon.com.

Ideas for a PD Call or interested in being a guest speaker?

We welcome your input and appreciate your help! Please contact our Programs Vice Chair, Erin Weatherly, or Assistant Programs Vice Chair, Madhu Karri, with ideas or interest in a future call.

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2016 Engineering & Construction Camps

- **U.S. Army Camp**
  - Vicksburg, MS
  - June 19 - 25, 2016

- **U.S. Marine Corps Camp**
  - June 19 - 25, 2016

- **U.S. Air Force Academy Camp**
  - July 7 - 13, 2016

- **Atlanta Post Camp**
  - June 5 - 10, 2016

*Interested in becoming a mentor? Visit [http://www.same.org/SAMECAMPS](http://www.same.org/SAMECAMPS)*

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Want to Get Paid? No Problem!

All you need to do is be an active SAME member, sit for your professional credentialing exam, pass it, and then seek reimbursement from SAME via the YMC Credentialing Achievement Awards Program (CAAP). The YMC is committed to promoting the professional development for SAME Young Members in order to support the SAME Strategic Plan. If you are a Young Member, the CAAP serves to fulfill an objective to provide financial support for professional development, education, and mentoring initiatives which benefit SAME members.

SAME will support the cost of credentialing by reimbursing Young Members for exam sitting or registration fees. The full program details and application are located on the SAME HQ website.

**CAAP applications are due October 14, 2016.**

For questions regarding the program, please visit the Young Member Council webpage on the SAME website [http://www.same.org/Young-Member](http://www.same.org/Young-Member) or contact MAJ Jack Johannes at jack.johannes@gmail.com.
9th Symposium on Design and Construction Issues at Hazardous Waste Sites  
**Date:** April 20-22  
**Location:** Double Tree Center City, Philadelphia, PA  
**Info:** SAME is pleased to announce the continuation of this popular and important forum for environmental professionals. The SAME Philadelphia Post and USEPA co-hosted the symposium in 2015 and will continue this partnership for the Spring 2016 Symposium. The applications of engineering and science associated with cleaning up hazardous waste sites continue to evolve rapidly. Our goal is to facilitate an interactive engagement between professionals from government and the private sector related to relevant and topical issues affecting our field.

**Capital Projects Symposium**  
**Date:** May 1-3  
**Location:** Austin, Texas  
**Info:** Capital Projects Symposium 2016 will be a high level conference exploring the technology, project delivery and innovation in construction management practices. Through expert plenary sessions and focused, practical breakouts (along with ample networking time), attendees will build an understanding of today’s technology options, their impact on project delivery and how both owners and service providers are utilizing innovations to increase project success.

**YMC Webinar on the Houston-Galveston Post Young Member Initiative**  
**Date:** May 4, 1:00 p.m. – 2:00 p.m. EST  
**Info:** We’re excited to have Omar Oweis, E.I.T., Jacobs, Director of the Houston-Galveston Post YMC, speak about their Young Member Initiative…an innovative approach to energizing and engaging your Young Member base.

**David Nour on Fundamental Laws of Relationships Webinar Series**  
**Date:** May 10, 12:00 p.m. - 1:00 p.m. EST (1 PDH)  
**Info:** There are three types of relationships: personal, functional and strategic. Most people have plenty of the first, few of the second, and fewer yet of the third. Join us for a webinar as we explore the three types of relationship builders, a strategic relationship maturing model and best practices in bridging relationship creation to relationship capitalization. We’ll discuss key beliefs, which hold many people back from forming and nurturing great relationships, our individual and highly unique Relationship Signature Index (RSI)™ and why and how relationships go bad!

**Young Member Council Monthly Call – All YMs are welcome!**  
**Date:** May 12, June 9, July 14 from 12:00 p.m.-12:30 p.m. EST  
**Info:** https://www.spiderphone.com/46486713. Call in 212-812-2800, access code 46486713.

2016 SAME Joint Engineer Training Conference & Expo  
**Date:** May 24-26  
**Location:** Phoenix, AZ  
**Info:** Join your colleagues at the SAME 2016 Joint Engineer Training Conference & Expo where you'll have a plethora of opportunities to learn, connect and network!

Additional events can be found online at [http://www.same.org/calendar](http://www.same.org/calendar)

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**Join the SAME Young Members LinkedIn Group!**  
Through the members-only SAME group, you can leverage the power of the SAME network to find and reach the new business contacts you need, accelerate your career through referrals from SAME members, know more than a name by viewing profiles from fellow SAME members, and let other SAME members know what you have to offer professionally to them and their contacts. Access to the special SAME group features on LinkedIn is free, and is available to SAME Members only.

SAME Members are encouraged to join the SAME network: [https://www.linkedin.com/groups/3706130](https://www.linkedin.com/groups/3706130)

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Visit us on the Web!  
[www.same.org](http://www.same.org) | [http://www.same.org/Young-Member](http://www.same.org/Young-Member)