From the President

Happy Holidays fellow Post members!

I hope each of you is enjoying the early stretch of the holiday season by spending time with friends and family, and preparing for the New Year ahead of us.

Over the last seven months I have talked at length about giving back to the up and coming members of our professions and companies, inspiring the pursuit of STEM careers in students of all ages, and coming together as a community to build relationships. At this time of year, I will not say that these messages become irrelevant, but more that their scope should expand.

This is the time of year, if at no other time, that our focus should extend well beyond ourselves, our families, and our immediate social groups. Instead, we should take a broad look at the world around us and consider how we can make a difference. Those differences can be made with those in need, as is often the sentiment, but also just as a target of opportunity.

At various points throughout this year I have challenged our community to evolve the way we approach Post activities, including outreach, commitment to the long-term vision of the organization, and the overall growth of our priorities. At this point, during both one of the most joyous times of year, and what can be a difficult time for others, it is not time for me to issue another challenge, but time for each of us to challenge ourselves.

Challenge yourself to impact the lives of those around you. When a chance to make a difference is thrust in front of you, no matter how big or small, focus on how much that act would impact the life of the others involved. We can always talk ourselves out of taking that next step, and away from creating the feel good story. Instead, evolve your support of the community around you, realize the impact you can have, and don’t miss the opportunity.

While you will often hear about the good feelings you will experience after giving back, or the satisfaction you may feel in knowing you did something -- anything -- for someone else, don’t let that be your only motivation. Be motivated by the simple fact that giving back is the most basic form of advancing our society and enduring difficult experiences. It’s time; time to talk about supporting people beyond our comfort zone, beyond our family, beyond our office, and beyond the Boston Post. Many of you already do this, but it is time to go the extra mile and influence those closest to us or those that may just be passing by at the moment of your kind act. Evolve the way you consider giving to others and make this “season of giving” the first step toward a habit of giving back.

I wish all of you a wonderful holiday season and I look forward to seeing all of you in the New Year!

Mark
Meetings & Events

ALL MEETING INFORMATION IS ALSO ON THE NEW SAME WEBSITE
http://www.same.org/boston

January 2017

24 January  3:00 pm-10pm  Wachusett Mountain Ski Event/Monthly Meeting  
   see Young Members Committee page for details

February 2017

2 February  12:30-8:00 pm  14th Annual Contract Opportunities & Small  
   Business Showcase—See Flyer

March 2017

7 March     11:30   Joint meeting with Construction Management Association of America (CMAA)  
   Sponsored by Comprehensive Environmental Inc.

23 March  5:30-8:30 pm  “What’s Brew with You at the Nightshift”  
   Nightshift Brewery, 87 Santilli Hwy, Everett, MA  
   Hosted by Young Members

April 2017

11 April      11:30     Emergency Preparedness and Infrastructure Resilience  
   Sponsored by The Woods Hole Group

May 2017

May        5:30-9:00 pm  56th Annual Spring Meeting – additional details to follow

Note: All meetings take place at the Westin Waltham Hotel unless specified otherwise.
SAME Boston Post Small Business Training and October Monthly Meeting - Debi Heims, Dorothy Richter, & Sheila Warren

The SAME Boston Post Small Business Committee spnts on October 11, 2016 designed to provide training and insights for government contracting to the Post membership. The Committee tried to make the two events of particular interest to emerging small businesses as well as the full Post membership. Over 80 people, including several first-time registrants for a SAME Boston Post event, packed the room for both programs.

The training session, a first for the Committee, was conducted in the morning and concentrated on how to prepare a winning proposal. The topic had been selected based on the results of a poll of the membership. The training session was followed by the Boston Post’s regular October Monthly Meeting, with a roundtable discussion by distinguished decision makers on how Government panels actually evaluate the proposals they receive.

The Training and Education Session—How to Write a Winning Government Proposal—was presented by Ken Tooke, Senior Partner of Tooke and Smith Consultants, LLC, a strategic planning, business development, and proposal management firm. Ken’s training session covered topics ranging from strategic planning, capture planning, and proposal development, to the actual proposal writing itself. He explained that each topic could be its own day-long seminar. Ken briefly covered the topics, and provided a window into the world of writing government proposals.

Lessons Learned from Proposal Submissions, a Panel Discussion, was the focus of the regular Boston Post Monthly Meeting sponsored by the Small Business Committee. The lively roundtable was moderated by Eva Marie D’Antuono, Small Business Deputy for USACE New England District. The panel consisted of senior representatives from USACE New England District (David Margolis), US Coast Guard Civil Engineering Unit Providence (CDR Michael Roschel) and the Massachusetts Designer Selection Board (Frederick Aufiero, PE). Eva Marie described the acquisition process from the government perspective. The panelists each described how their respective review panels operate. The panel protocols are all well-defined to provide unbiased assessments of the proposal submissions. Some military panels work in closed-door sessions, but the Mass. Designer Selection Board sessions are open to the public for complete transparency. There was a substantial and consistent emphasis on “answering the proposal” and “follow directions.” In addition, all of the panel members indicated that the government cannot perform its mission without the contracting community – the partners - and it is in everyone’s best interest to provide good services to their clients.

The Committee thanks Ken Tooke and the Roundtable Panel members – CDR Mike Roschel of USCG CEU Providence, David Margolis of USACE New England District, and Fred Aufiero of the Mass. Designer Selection Board, for sharing their experience and insights. The combined training and panel discussion format was such a success that the Small Business Committee hopes to provide similar opportunities next year.

Ken Tooke

Peter Zeeb Elected New President & CEO of Geosyntec Consultants

In the fall of 2016, Peter Zeeb, Ph.D., P.G., LSP was elected President & CEO of sustaining member firm Geosyntec Consultants, succeeding Rudy Bonaparte, Ph.D., P.E., F.ASCE, NAE, who had served in that role for the last 20 years.

"I am honored and grateful to have the confidence of my colleagues, and to lead some of the most talented and motivated scientists and engineers in the world," said Peter. "The teamwork and goodwill amongst our employees, combined with technology leadership and practice innovation, are the foundation for delivering solutions of exceptional value to our clients. These traits, teamwork, goodwill, technical leadership, and innovation, are also what makes me so energized to lead Geosyntec."

Peter, who works out of Geosyntec’s Acton office, joined the firm in 1999 and is now a Senior Principal Hydrogeologist. He received his Ph.D. in environmental engineering from the Massachusetts Institute of Technology and his M.S. in the same field from Stanford. His practice has focused on the evaluation and remediation of some of the most challenging contaminated sites in the country, with an emphasis on hydrogeological investigations, chemical fate and transport studies, remedial strategy development/alternatives analyses, pilot test design and implementation, and full-scale remedy design.

For more information about Peter, visit https://www.geosyntec.com/people/peter-zeeb
BRYANT, Jack David Engineering Exec. Tuskegee Airman Age 89, of Cohasset, passed away peacefully on December 20, 2016 at home surrounded by loved ones. Mr. Bryant was the loving husband of Vernita W. (Williams) Bryant, the devoted father of Saadia R. Bryant of Brighton and Jeffrey C. Bryant of Weymouth and adoring grandfather of AJ Bryant also of Weymouth. Devoted son of the late Johnnie Bryant and Joseph Bryant of Dowagiac, MI and loving brother of the late Joseph Bryant Jr. He is also survived by his nieces and nephews; Jerome Bryant and his wife Canary of Vicksburg, MI, Yvonne Mourning of South Bend, IN., Yvette Bryant of Lansing, MI., Yonee Kuiphoff and her husband Doug of Grand Rapids, MI, Yolanda Searles of Kalamazoo, MI and their respective families.

Mr. Bryant was a veteran of World War II, serving in the US Army Air Forces as a Tuskegee Airman. He earned his BS in Engineering in 1951 from University of Michigan, an MS in Engineering Management in 1976 from Northeastern University. He was awarded an Honorary PhD in Engineering from Northeastern University in 2013. Jack was the founder and President of Bryant Associates, Inc., a multidisciplinary professional services firm providing engineering, surveying and construction management services.

Jack was a member of the New England Chapter of the Tuskegee Airman, the American Railway Engineering and Maintenance of Way Assoc. and the Academy of Fellows of Society of American Military Engineers. He was the former President of Downtown North Assoc. and The Boston Post of Society of Military Engineers. He was a former Board member of American Road & Transportation Builders Assoc., and of Middlesex Bank and Trust.

In 2000, Mr. Bryant was awarded the Freeman Award from the Providence Engineering Society, in 2007 the Congressional Medal of Honor as a member of the Tuskegee Airman and in 2012, the President’s Award from the Greater New England Minority Supplier Development Council. In his spare time, he enjoyed listening to music, gardening, building model trains at the South Shore Model Railway Club and telling stories.  Published in the Boston Globe December 23, 2016
Retired LTC Leo Gray, one of the original Tuskegee Airmen, died 23 SEP. He was 92. Gray, a Boston native, enlisted after high school — when the military was segregated — and began training in 1942 at Tuskegee Army Airfield. He became an active-duty pilot the following year and stationed in Italy, where he flew with the 100th Fighter Squadron, 332nd Fighter Group, which protected Allied bombers. He flew the P-51 Mustang, also referred to as a “Red Tail,” logging 750 flight hours. He said he never got a chance to shoot down any Germans, but he was ready to.

After the war, Gray earned his bachelor’s & master’s degrees in agricultural economics and became an executive with the USDA until his retirement in 1984. Gray played a leading role in the Tuskegee Airmen Inc., which provides scholarships to minorities studying aviation & aerospace. He served as president of the Miami & East Coast chapters.

Retired Lt. Col. Leo Gray completed 15 combat missions over German-occupied territory.
★Join us for this Fun Event For All Members, their Families and Friends—hosted by the Young Members Committee★

**January 24, 2017:** Wachusett Mountain Ski Event and Meeting
3:00pm—10pm (6 pm—10 pm is for additional ski time)

$50 for dinner only
$70 for dinner and skiing which includes lift ticket and rentals if necessary
The SAME Boston Post Small Business Committee, in conjunction with the Piscataqua and Narragansett Posts, presents:

Afternoon / Evening Event
Regional contract opportunity updates from key agency representatives as well as valuable networking.

Invited agencies include:
★ U.S. Army Corps of Engineers
★ NAVFAC MIDLANT
★ U.S. Coast Guard
★ U.S. Dept. of Veteran Affairs

Small Business Showcase
The Showcase is an opportunity for interested small and large businesses to showcase their companies and meet with potential partners. Exhibitor tables are adjacent to the speaking area.

The Showcase is accompanied by a cocktail and heavy hors d’oeuvres mixer.

The closing date for registration and exhibitor sign-up will be Thursday, January 26th. We sold out of all tables very quickly last year, so be sure to register for the Small Business Showcase as soon as possible.

Thursday, February 2, 2017

Location
Westin-Waltham Hotel
70 Third Avenue | Waltham, MA 02451
Phone: 781.290.5600
Online Reservations: Westin-Waltham Hotel Online

Date: Thursday, February 2, 2017
12:30 – 1:30 PM
Exhibitor Registration & Set-up
1:00 – 1:45 PM
Attendee Registration
2:00 – 4:00 PM
CONTRACT UPDATES PRESENTATIONS
4:00 – 8:00 PM
SHOWCASE & MIXER (CASH BAR)

Parking: Complimentary self-parking on ground level and two underground levels at the hotel

★ REGISTER TODAY ★
http://www.same.org/Get-Connected/Find-a-Post/Boston/Events
### Exhibitor and Registration Information

<table>
<thead>
<tr>
<th></th>
<th>By Jan. 15, 2017</th>
<th>After Jan. 15, 2017</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exhibitors</td>
<td>$225.00</td>
<td>$250.00</td>
<td>Includes 6' exhibit table and one registration to the event. Signage will be provided for your firm. <strong>No displays or exhibits please</strong> - only company literature. Power will not be supplied. Limited exhibit tables are available.</td>
</tr>
<tr>
<td>Event Sponsors</td>
<td>$150.00</td>
<td>$175.00</td>
<td>Includes logo recognition prominently displayed during event. Does not include registration or exhibit table. Logos should be sent in high res (at least 300 dpi) JPG format to: <a href="mailto:SWarren@geocomp.com">SWarren@geocomp.com</a> by Friday 1/22/17.</td>
</tr>
<tr>
<td>Attendee Registration</td>
<td>$80.00 per person</td>
<td>$100.00 per person</td>
<td>Includes <strong>only</strong> attendance at contract update event and mixer.</td>
</tr>
<tr>
<td>Special Attendee Registration</td>
<td>$50 Per person</td>
<td>$50 Per person</td>
<td>Gov't Employees / Seniors / Young Members</td>
</tr>
</tbody>
</table>

### Payments and Cancellations

**Payments:** Credit card or PayPal (online only), cash or checks will also be accepted. **Please note:** Cancellations must be received 5 business days prior to the event (January 26, 2017). “No-shows” will be billed the full amount.

### REGISTER TODAY

We have gone paperless and registrations will be handled online. Credit cards will be accepted online only. Visit the SAME Boston Post website at: [http://www.same.org/Get-Connected/Find-a-Post/Boston/Events](http://www.same.org/Get-Connected/Find-a-Post/Boston/Events)
The Outreach Season is Taking Off!

The **FIRST Lego League competitions** are underway and the Boston Post is continuing our support of two of the teams – Silver Lake based out of Kingston, MA and last year’s Rhode Island State Champions, the Jamestown Robowolves. The Teams have completed their design and programing of their Legos, and prepared their presentations for the review committees. They also continue to do presentations to the fourth and fifth grades recruiting students for future teams. Now the competitions begin to see who will go on to the states and possibly to nationals. *The Robowolves recently were awarded the Champion’s Award at their first competition in November for best design, project performance and team spirit.* We will update you next quarter on how the teams do this year.

We have also been coordinating with three of our **FIRST robotics teams** (Groton-Dunstable, Walpole and Weymouth) that the Post supports. As part of their preseason work they have been out fund raising and doing community presentations to schools. The Weymouth Team is reaching out to the Boston Post for help on the senior students Capstone Project “Suit UP for Success” to collect clothing to support those students that need gently used clothing for job interviews and college interviews. Items needed include professional suites, dresses, blouses, skirts, jackets, ties, shoes, scarves, jewelry, purses, briefcases and professional accessories. *Please see the attached letter with more details.*
I am pleased to share the following message on behalf of Weymouth High School Seniors Bridget Monahan, Chris McMorro & Terence Ho

Suit Up for Success... a WHS Capstone Project

Seeking New or Gently Used Business Attire for Suit Up for Success Lending Closet for WHS students in need of professional clothing for job/college interviews and other professional situations

Men’s & Women’s Items Gratefully Accepted!

Items can be dropped off at Weymouth High School
1 Wildcat Way, Weymouth, MA 02190

Professional Suits, Dresses, Blouses, Skirts, Jackets, Ties, Shoes, Scarves, Jewelry, Purses, Briefcases and Professional Accessories

Questions? E-Mail: whssuitupforsuccess@gmail.com or call 781-337-7500, x-25201
Dear Weymouth Public School’s Staff and Faculty Members:

As I am sure you all know, the seniors each year are immersed in a yearlong project which is supposed to demonstrate their command of the 21st century skills and generate ideas from their career academy. While being a part of the DECA club at WHS, a business and leadership program for high school students, students compete in various business scenarios. DECA has showed us how to present ourselves during professional situations. A large focus of DECA is college and career readiness, these words are also echoed in the Weymouth High School mission statement. While at DECA conferences, students participate in seminars and competitions that prepare us for real-life problem solving and career situations. One seminar that was beneficial was about professional dress and interviewing skills. We have decided to create a closet designed to cater to people who need clothing items for professional situations, our capstone project is called Suit Up for Success.

Suit Up for Success is a closet in the school, which is open to all students who are in need of borrowing clothing items for interviews, class presentations, Capstone, etc. From the research that we have conducted a majority of students at Weymouth High School have gone on interviews and did not have the proper business attire needed for the situation. With having our closet located with in the school, it will provide easy access to students who are in need of professional business clothing. We have set up a Google email account where students will be able to message us for when they will need clothing. With the help of the community engagement liaison, Betsy Harris, we have been able to connect with local dry cleaners in Weymouth who have agreed to cover the costs of dry cleaning the used clothing after usage.

We believe Suit Up for Success can and will be effective, with the help of our capstone advisors and the faculty who have already aided us. However, our project cannot be as successful as possible without the donations of others. If you are cleaning out your closets, we are seeking donations of any professional attire including suits, ties, shirts, blouses, skirts, dresses, shoes, etc. If find that you have items that will be beneficial to us, Please email us at whssuitupforsuccess@gmail.com.

Thank you,

The Suit Up For Success Team:

Bridget Monahan, Chris McWorrow & Terence Ho

WHS Class of 2017
MathCounts is coming, MathCounts is coming - in February 2017. Just like our Rocket Clubs, this is another one of the programs the Boston Post has been supporting for a long time. We are again supporting four of the regional competitions to be held in the Southeast Region (New Bedford), Metro (Melrose), Metrowest (Weston), and Northeast (North Andover). We have attached the schedule for all seven of the regional competitions across the state and points of contact that you can reach out to volunteer to help at the events. This could include proctoring the tests, working in the scoring room and judging the rounds of math jeopardy. Support from the Boston Post will reach over 750 6th-8th grade students from 93 Middle Schools in eastern Massachusetts. Over 140,000 students will participate in this program annually across the country. Several folks within the Post have supported these competitions and always come away very impressed with the student’s knowledge and abilities. We are hoping we can get some strong support from the Post with the large variety of competitions and locations.

### Massachusetts MATHCOUNTS Competitions (2016-2017)

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Date</th>
<th>Location</th>
<th>Time</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central</td>
<td>2017-02-09 (Thu)</td>
<td>Oak Middle, Shrewsbury</td>
<td>3:00 PM</td>
<td><a href="mailto:bethblumberg@hotmail.com">bethblumberg@hotmail.com</a></td>
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<tr>
<td>Metro</td>
<td>2017-02-04 (SAT)</td>
<td>Melrose Veterans Middle, Melrose</td>
<td>8:00 AM</td>
<td><a href="mailto:jack.martin@stantec.com">jack.martin@stantec.com</a></td>
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<tr>
<td>Metrowest</td>
<td>2017-01-28 (Sat)</td>
<td>Meadowbrook School, Weston</td>
<td>8:00 AM</td>
<td><a href="mailto:EGugliotti@irwinengineers.com">EGugliotti@irwinengineers.com</a></td>
</tr>
<tr>
<td>Metrosouth</td>
<td>2017-02-11 (Sat)</td>
<td>The Sage School, Foxboro</td>
<td>8:00 AM</td>
<td><a href="mailto:john.hayden2@stantec.com">john.hayden2@stantec.com</a></td>
</tr>
<tr>
<td>Conn Valley</td>
<td>2017-02-04 (SAT)</td>
<td>Hampden Charter School of Science, Chicopee</td>
<td>8:00 AM</td>
<td><a href="mailto:dpdpe@comcast.net">dpdpe@comcast.net</a></td>
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<tr>
<td>Southeast</td>
<td>2017-02-01 (Wed)</td>
<td>Keith Middle School, New Bedford</td>
<td>3:00 PM</td>
<td><a href="mailto:Ned.Stewart.ctr@navy.mil">Ned.Stewart.ctr@navy.mil</a></td>
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<td>Northeast</td>
<td>2017-02-08 (Wed)</td>
<td>North Andover High School, North Andover</td>
<td>3:00 PM</td>
<td><a href="mailto:hostertog@yahoo.com">hostertog@yahoo.com</a></td>
</tr>
<tr>
<td>State</td>
<td>2017-03-04 (Sat)</td>
<td>Wentworth Institute of Technology, Boston</td>
<td>9:00 AM</td>
<td><a href="mailto:john.hayden2@stantec.com">john.hayden2@stantec.com</a></td>
</tr>
<tr>
<td>Nationals</td>
<td>2017-05-14 &amp; 15</td>
<td>Orlando, FL</td>
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Note: Chapter snow dates are sometimes established; coordinators will notify registered schools directly.
Rockets were flying again in November! Our first three rocket clubs completed their after school meetings learning about the design and history of rockets, building their own rockets and then launching just before Thanksgiving. We had the opportunity to see the Randolph and Milton Middle School clubs launch their rockets and chase them down as they floated back to the ground. A new engine design had these rockets reaching new heights, really exciting the students. Thanks to all the teachers for their commitment and for bringing their students out to see the launches so we could show how much fun science can be to 200 7th and 8th grade students. Send me an email if you would like to be copied on the spring 2017 launch dates and information to attend one of the four club launch dates (david.heislein@amecfw.com).
We have also been asked to support the Billerica and Melrose High School Career Fairs scheduled for February 8, 2017 (time TBD) and March 7, 2017 (6:30-8:30 pm), respectively. Please contact me if you have any interest in supporting these events or future career fairs (david.heislein@amecfw.com).

**Career Fairs and Classroom Speaker Series:** This is something the Boston Post does very well! We continue to get an unbelievable response from the teachers and students at these events. You don’t always see the “ah-ha moment” during the presentations, but we hear from teachers all the time about how students come back to class so enthusiastic and the students have a new focus in class, joining after school programs and doing their homework. This is our chance to reach a large number of freshman, sophomores, juniors to tell them what we do and the path they would need to take to have a career in science and engineering. We have requests coming in to support the Weymouth High School with a speaker series on January 9, 2017 and February 13, 2017. They are looking for speakers to talk and answer questions for high school juniors. These sessions last 20-25 minute and start at 7:30 am. See the attached request with more details to support and the point of contact. There will be another opportunity in the spring to support a career fair at the Weymouth High School.
Save The Date
Career Exploration Fair
Billerica Memorial High School
February 8, 2017
Classroom Speakers

Suggested Outline for Career Presentations

Purpose
- Inform high school students about your career and how and why you got into it.
- Suggest ways for students to find careers that best suit their interests, aptitudes, and skills

Your biography
- Tell us about yourself (and don’t be bashful!)
- How did you get into this line of work?
- When did you know it’s what you wanted to do?
- Did anyone help you decide what profession(s) you should go into?
- What other jobs have you held?
- What interests do you have outside the work place?

Preparing yourself
- How did you prepare for the job you have?
- What training would you recommend for someone interested in this field?
- How many years of education are required for this particular job?
- What kinds of jobs can you consider with training in this field?

What’s the job like?
- What is a typical day like? What do you spend most of your time doing at work?
- What is your work environment like?
- What are typical salaries or wages for the field?
- What kind of work hours do you keep?
- What abilities help you to do your work?
- What do you like most about what you do?
- What do you like least about what you do?

The job prospects
- What advice would you give others preparing for this type of work?
- What do you see in the future for this line of work?
- How can someone get more information about the field and how to enter?

Next steps
- Are you interested in counseling students if they are interested in the career?
- Can you suggest other professionals who may want to help students make choices?
Seeking Career Speakers

- Inform students about your career/industry; how and why you got into it
- Suggest ways for students to find careers that best suit their interests, aptitudes & skills

December 12, 2016 ‧ January 9, 2017 ‧ February 13, 2017
7:30—8:25 am

Special Arrangements Available

Click Here to Register:
https://docs.google.com/forms/d/e/1FALpQLSeVYWyjOOFfKuVr_DH7qhzOoeKxjdp29yUXajOGiSOGyGew/viewform

Career Speakers is part of the WPS College & Career Readiness Initiative

For more information, Contact Mindy Galusha
at melinda.galusha@weymouthschools.org
October 2016

The 2016 Military, Veteran & Family Career Enhancement Retreat was held in October by the Massachusetts National Guard Family Readiness. The Boston Post provided support to this career retreat, led by Debi Heims of KOMAN Government Solutions, with support from Cheryl Vanmolle of AECOM and David Heislein of Amec Foster Wheeler. Our panel led the discussion about careers in the engineering and construction industry, job applications and interview skills to help them find careers that best suit their interests, aptitudes and skills learned in the military.

According to Stephanie Shaw, HRCI Contractor, Springfield Family Assistance Specialist, “I wanted to take a moment and share with you how much we appreciated you coming to participate in our Employability Retreat Weekend. Both Project New Hope and our office received rave reviews about the weekend’s content and format. Your participation was invaluable to our team and our attendee's. I look forward to coordinating more of these events and hope to work together again in the future.”

December 2016

SAME has been asked to “adopt a family” this holiday season through the Massachusetts National Guard Family Program Office. We are pleased to let you know that we will be suppling Christmas gifts for a Service Member and family in need. Our Service Member has recently returned from deployment with the 1060th Transportation Company and is now assigned to the 189th Engineer Team. Our Service Member holds the Military Occupational Specialty (MOS) of a Motor Transport Operator, Combat Engineer and Concrete and Asphalt Equipment Operator.

“No one is useless in this world who lightens the burdens of another.” - Charles Dickens
January 2017 and beyond

In 2017 the Boston Post will be adopting soldiers assigned to the 181st Infantry Regiment that will be deploying in early 2017. The soldiers will be coming from several units within the battalion. Currently, there is a holiday party planned for January 7th and followed by a pre-deployment Yellow Ribbon Event. We will be looking for volunteers – please contact Debi Heims at KOMAN Government Solutions dheims@komangs.com or (508) 380-3841 should you want to help. More information forthcoming.

News about/from The Technology Student Association
Submitted by Sandy Honour
TEAMS Manager

The Technology Student Association (TSA) is a national, non-profit association of middle and high school students engaged in STEM. TSA and the programs it manages can be found in over 2,000 schools across the United States. SAME has partnered with TSA in an effort to support these programs with volunteer assistance from adults who work in STEM fields. Whether you have a few hours or a few days, opportunities are available at every level - virtual (from your own computer), local, state, and national.

Learn more about these volunteer opportunities at www.tsaweb.org/volunteer.
Our Soldiers, Sailors, and Airmen, and probably Americans overall are getting fatter:
How Many Ships and Where? To Have One, You Need Three

There are 272 ships in the United States Navy today. That includes: ten (soon eleven) aircraft carriers, 52 attack submarines capable of hunting enemy ships and submarines as well as launching missile attacks against land targets; 14 ballistic missile submarines for nuclear deterrence; 85 major surface combatants (cruisers and destroyers) capable of air defense, anti-submarine, anti-ship, and land attack, with some capable of providing defense against nuclear ballistic missiles; 8 small surface combatants, the Littoral Combat Ship, with modular mission packages; 31 amphibious ships capable of landing marines to assault beaches.

Normally, about 20 percent of the fleet is deployed at any given time conducting operations around the world. Another third is usually at-sea conducting training in preparation for deployment. And roughly another third is in concentrated maintenance and repair periods that preclude these ships from being able to deploy. The remaining ships are at, or close-to, deployment-ready on a moment’s notice.

Even though the U.S. Navy is expert at refueling and resupplying its warships at sea, without having to pull into a port, ships cannot stay at sea indefinitely. They regularly require repairs and upgrades, and crews inevitably become fatigued (and have homes and families to return to) and periodically require retraining to remain a cohesive and effective team. Practically, this means that for every ship “on station” somewhere in the world, you need two more back home to maintain that presence: the one on deployment, one undergoing repairs, and one in training to take the place of the deployed ship when it returns home to get its own repairs. That repair-train-deploy cycle is currently about 18 months, which includes a seven month deployment overseas.

What is the Mission? Presence, Deterrence, Sea Control, and Power Projection

The stated mission for all these ships is “winning wars, deterring aggression and maintaining freedom of the seas.” The Navy’s mission, as an organization, is to “maintain, train and equip combat-ready Naval forces” capable of doing those things. That distinction is important. In the United States the military branches are “force providers” and not “warfighters.” The Navy maintains the fleet, which is then parsed out to the geographic Combatant Commanders (divided into the Pacific, Europe, Africa, the Middle East, and North and South America), who are responsible for using those forces to achieve the missions assigned to them by the Secretary of Defense and the President. The Combatant Commanders’ demand for warships is high. In 2014, the Chief of Naval Operations testified to Congress that the Navy would need 450 ships to actually fill every commander’s request for forces.
Naval forces provide the Combatant Commanders with four traditional core capabilities (sometimes called missions or essential functions) -- Deterrence, Presence, Sea Control, and Power Projection. Since they were first formally laid out by the President of the Naval War College in 1974 some of the wording and emphasis has evolved; for example, an initial focus on strategic or nuclear deterrence was broadened to include conventional deterrence. Two new missions/capabilities/functions were later added, Maritime Security and Humanitarian Assistance/Disaster Relief. Humanitarian Assistance was later re-categorized, Presence is sometimes dropped, and All Domain Access currently appears in its stead, but the original four ‘high end’ capabilities remain the basis for U.S. naval doctrine:

Deterrence includes both credible, persistent conventional naval forces to dissuade adversaries from initiating hostilities, and the secure second-strike nuclear capability provided by U.S. ballistic missile submarines.

Presence is a more nuanced, and less necessarily coercive upgrade to the idea of “gunboat diplomacy.” As first explained in 1974, it is “the use of naval forces, short of war, to achieve political objectives” and can provide ally reassurance, demonstrate resolve to an adversary, or dampen an emerging crisis.

Sea Control is perhaps the most traditional naval mission; ensuring freedom of action for friendly forces in the maritime environment, either through deterrence, or the actual destruction of adversary forces that threaten them (i.e. sinking the enemy fleet). In the face of opposition, Sea Control enables all the other core capabilities.

Power Projection is simply the delivery of destructive force from the sea against targets on land. Freed from the diplomatic, geographic, and military hurdles faced by armies and ground-based airpower, the Navy can use carrier-based aircraft to drop bombs and launch missiles, land Marines from its amphibious ships, or use naval cannon and missiles to bombard the shore.

Since the end of the Cold War, the Navy’s primary combat mission has been Power Projection, especially through carrier air power and the Tomahawk cruise missile. The Tomahawk gives ships and submarines the ability to precisely hit targets with a 1000-pound warhead at ranges of approximately 1000 miles, without having to risk a pilot flying overhead to drop a bomb. The public first saw these new weapons on display during the first Gulf War in 1991 and the Navy has launched over 2,000 Tomahawks since (about 1,500 were used in operations against Iraq).

With the demise of the Soviet Union, U.S. Sea Control capabilities withered. Starting in the late 1990’s, new surface ships were constructed without a long-range anti-ship cruise missile. The Harpoon missile carried by older cruisers and destroyers is itself a 40-year old design. The rapidly expanding Chinese fleet, armed with advanced anti-ship cruise missiles that are faster and have greater range than the U.S. Harpoon, has generated renewed focus on the Sea Control mission and development of new concepts and improved technologies.
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