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Contents

June 30, 2019, Vol. 68, No. 6

TO THE FIELD

- **10 ARSOAC Commander Update** By BG Allan M. Pepin
- **14 ARSOAC Command Chief Warrant Officer Update** By CW5 David F. Greenwood
- **18 ARSOAC Command Sergeant Major Update** By CSM Billy D. Webb
- **22 Combat Readiness Center Update** By COL Christopher W. Waters
- **24 Reserve Components Aviation Update** By BG J. Ray Davis
- **26 Tech Talk** By Mr. Toney Heathington
- **28** Ask the Flight Surgeon By CPT Joseph R. Adams, DO and MAJ Ryan Green, PhD

SPECIAL FOCUS — Army Special Operations Aviation

- 30 Special Operations Aviation Mission Survivability Team Owning the Spectrum for Tomorrow's Fight By MAJ Zachary Dadisman, MAJ Evan Westgate, CPT Brandon Jack and CW4 Thomas Schneider
- **34 Bridging the Aviation CBRN Gap** By CPT Nickolas Nagel and MAJ Paul Neal
- **38 Prepare for A2AD** By MAJ Chip Colgary and CW4 Dan Cosson
- **40** ARSOA & AFSOC: Leverage Training Opportunities with a Focus on Near-Peer Threats By MAJ David Aamidor and Maj. Ryan Taylor (USAF)
- 42 Analog Processes in a Digital Army: Human Expertise Supporting Digital Complexity By CW3 Bruce Silva and SSG Kyle Gardner
- **44 Owning the Environment DVEPS** By CW4 Michael Pounds and MAJ Jeff Timmons











Contents

June 30, 2019, Vol. 68, No. 6

SPECIAL FOCUS – Arming the Force

46 PM JAMS Update – Special Operations Support By Mr. Todd L. Gangl

SPECIAL FOCUS

48 Army Aviation Mission Solutions Summit Recap

FROM THE FIELD

60 FORSCOM Aviation: Supporting the Aviation Warfighter By LTC Michael Charnley

DEPARTMENTS

AAAA NEWS	
AAAA President's Cockpit	8
AAAA VP Chapter Affairs	64
Chapter News	
AAAA VP Membership	
New Members	
AAAA Family Forum	
AAAA Legislative Report	

ARMY AVIATION COMMUNITY NEWS

Advertisers Index	72
Art's Attic	
Briefings	6
Calendar	65
Hall of Fame	
Historical Perspective	62
Industry News	72
In Memoriam	70
People on the Move	74
Spotlight	61

ARMY AVIATION is the official journal of the Army Aviation Association of America (AAAA). The views expressed in this publication are those of the individual authors, not the Department of Defense or its elements. The content does not necessarily reflect the official U.S. Army position nor the position of the AAAA or the staff of Army Aviation Publications, Inc., (AAPI). Title Reg® in U.S. Patent office. Registration Number 1,533,053. SUBSCRIPTION DATA: ARMY AVIATION (ISSN 0004-248X) is published monthly, except May and September by AAPI, 593 Main Street, Monroe, CT 06468-2806. Tel: (203) 268-2450, FAX: (203) 268-5870, E-Mail: aaa@quad-a.org. Army Aviation Magazine E-Mail: magazine@quad-a.org. Website: http://www.quad-a.org. Subscription rates for non-AAAA members: \$30, one year; \$58, two years; add \$10 per year for foreign addresses other than military APOs. Single copy price: \$4.00. ADVERTISING: Display and classified advertising rates are listed in SRDS Business Publications, Classification 90. POSTMASTER: Periodicals postage paid at Monroe, CT and other offices. Send address changes to AAPI, 593 Main Street, Monroe, CT 06468-2806.

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On The Cover

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Briefings > Late Breaking News - Announcements

POTUS Nominates Shanahan as SECDEF



President Trump has nominated acting secretary of defense Patrick Shanahan to fill the position vacated by Jim Mattis in December 2018, Shanahan, 56, spent decades at Boeing before

he was picked in April 2017 by Trump to serve as Mattis' deputy secretary of defense and has been acting secretary since January 2019. If confirmed by the Senate, he will be the 27th SECDEF.

McConville Confirmed as CSA



On May 23rd, the Senate confirmed by unanimous consent the nomination of GEN James C. McConville to become the 40th Chief of Staff of the United States

Army. He will succeed GEN Mark A. Milley who was nominated in April to be the 20th chairman of the Joint Chiefs of Staff.

Funk to Head TRADOC

LTG Paul Funk, currently the commanding



general of III Corps and Fort Hood, Texas, was confirmed by the Senate on March 28 for a fourth star and appointment to lead the U.S. Army Training and Doctrine Command, at Joint

Base Langley-Eustis. He will replace GEN Stephen Townsend who assumed command of TRADOC last March.

Hokanson Confirmed as ARNG Director



LTG Daniel R. Hokanson, United States Army National Guard, was confirmed by the Senate on March 28, 2019 for reappointment to the rank of lieutenant general and assignment

as Director, Army National Guard, Arlington, VA. A Master Army Aviator, he is currently serving as Vice Chief of the National Guard Bureau, Arlington, VA.

Richardson to Command ARNORTH

LTG Laura J. Richardson. was confirmed by the Senate on May 23, 2019 for reappointment to the

rank of lieutenant general and assignment as commanding general, United States Army North/Fifth Army, Joint Base San Antonio, TX; she is currently serving as deputy commanding general/chief of staff of U.S. Army Forces Command, Ft. Bragg, NC.

Three Six-Pack Members Confirmed for MG

The Senate confirmed on May 23, 2019 the following officers for promotion to the rank of major general:



BG David J. Francis. enroute to Commanding General, United States Army Aviation Center of Excellence and Fort Rucker, Ft. Rucker, AL;



BG Thomas H. Todd III,



Program Executive Officer, Aviation, Redstone Arsenal, Alabama.

CORRECTIONS:

On page 22 of the April/May 2019 issue, the co-author's name should be CPT Richard Nezat; and on page 21 of the March 31, 2019 issue, the photo is of SSG Matthew Ferguson – we apologize for the errors.

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President's Cockpit

Taking Off to Continue the Mission



am honored to serve as the new AAAA President. I have been a member for almost four decades, and I believe our association provides a true service to our Army, Army Aviation, and our Soldiers and their families. Representative Rosa DeLauro, addresses members of the Army Aviation Congressional Caucus during an AAAA-sponsored breakfast in Washington, DC, May 16, 2019. Also attending: (left to right) MG (Ret.) Jeff Schloesser, AAAA President; BG(P) Dave Francis, incoming U.S. Army Aviation Branch Chief; BG(P) Thomas Todd, PEO Aviation; BG Allan Pepin, Commanding General, U.S. Army Special Operations Aviation Command; Mr. William Marriott, Executive Director, U.S. Army Aviation and Missile Command; and Mr. Geoffrey Downer, Acting AMCOM Director, Special Programs.

I am committed to ensuring we support and provide a voice for our members and their families, while providing an important means for networking and both personal and unit level recognition.

I sincerely thank our previous president, BG (Ret.) Steve Mundt, for his two years of exceptional vision and leadership, which culminated in eight years of volunteer leadership within our AAAA National Executive Group. Steve has willingly accepted my request to continue to play a substantive role in AAAA, and so I expect you will see his face and name in our future activities.

I thank our Executive Director, Mr. Bill Harris, for his superb leadership of his talented AAAA professional team over the past year, culminating in our latest AAAA Army Aviation Mission Solutions Summit 14-16 April 2019. Bill and his team make this huge and complex event look seamless, but it is in fact a highly complex orchestration of multiple near simultaneous events that benefit Army Aviation and our members, as well as our industry and media partners. This year's summit was a hit: with almost 7,500 attendees, and multiple professional forums capped by the Army's most senior aviator, Vice Chief of Staff General Jim McConville (who we also congratulate on his confirmation by the Senate as our Army's next Chief of Staff).

At the Summit, your National Executive Group (NEG) was elected: Senior Vice President MG (Ret.) Tim Crosby, Treasurer MG (Ret.) Walt Davis, Secretary MG (Ret.) "Wally" Golden, and me as your 34th President. My congratulations to Tim, Walt, and Wally, and my thanks for their selfless service to AAAA! As part of the NEG, I am empowered to appoint Vice Presidents to serve in one-year capacities, and so reappoint MG (Ret.) Les Eisner as VP of National Guard and Reserve Affairs, LTC Jan Drabczuk (Ret.) VP of Chapters, and CW4 Becki Chambers as VP Membership. I thank them for their continued hard work!

As I look at Army Aviation, we are a strong, mature, and highly relevant branch. That said, we, like the rest of the Army, are at an inflection point. To borrow the Chief of Staff of the Army's phrase, and we must modernize our capabilities as the Army shifts to focus on peer to peer competition and deterrence, all the while maintaining a laser focus on current readiness. We at AAAA will seek to support our Army and our branch in this balancing act.

By the time you read this article, we will have hosted a forum between our elected leadership in Congress and Army Aviation Six-pack leaders for them to exchange viewpoints and learn from each other (the Army Aviation Caucus).

You can also expect to see in-depth articles in this magazine focused on Army Modernization, Future Vertical Lift, Peer to Peer competition and what that means for Army Aviation, and practical/tactical solutions for readiness challenges faced by our commanders, warrant officers and NCO leaders of our combat aviation formations. As you have come to expect, we will continue to give voice and focus to our total Army Aviation team of teams: Active, Reserve, National Guard, and Special Operations Aviation forces.

Congratulations to LTG Dan Hokanson on his confirmation as Director of the Army National Guard. As an Army Aviator, he brings a unique awareness to this critical position for the success of our Total Army Team.

This month our Army Aviation Branch Chief, MG Bill Gayler, relinquished command at Fort Rucker after 38 months in command. Bill has provided strong, passionate, and visionary leadership to our branch, and on behalf of our over 18,200 members of AAAA, we wish he and Michelle (a leader in her own right) a fond farewell and best wishes in their next posting in Europe. We also welcome BG (P) Dave Francis and his spouse Jodie back to Fort Rucker and offer our best wishes as Dave assumes command of our branch.

I also welcome our new AMCOM Commander, BG (P) Todd Royar back to Redstone Arsenal, and look forward to working with him to provide focused attention on readiness and sustainment of our fleets. And, we likewise welcome BG Mac McCurry as the Director of Aviation at DAMO-AV and wish him well as he looks out for the Army Aviation Enterprise interests at HQDA.

As I look forward to AAAA events this year, we have the Luther G. Jones Army Aviation Depot Forum in Corpus Christi, August 20-21; our AAAA National Executive Board semi-annual meeting in Washington, DC, October 13; and in Huntsville, our Aircraft Survivability Symposium, November, 18-19 followed by the Joseph P. Cribbins Army Aviation Product Sustainment Symposium on Nov. 20-21. Additionally, we will be supporting many Chapter events this year with resources to lower costs and expand opportunities to our members and prospective members.

It is shaping up to be an exciting year for Army Aviation, and I look forward to providing proactive leadership of our great association!

MG Jeff Schloesser, U.S. Army Retired 34th President, AAAA *jeff.schloesser@quad-a.org*





ARSOAC Commander Update

Editor's Note: For this Special Operations Aviation focused issue, the branch chief, MG William K. Gayler, has coordinated having the commanding general of the U.S. Army Special Operations Aviation Command, BG Allan M. Pepin, his command chief warrant officer, and command sergeant major provide the lead, "To the Field," command group articles.

ARSOAC – A Ready and Lethal Command

By BG Allan M. Pepin



They often push themselves and their equipment to the upper limits of human ability and equipment capability. Amazingly and consistently, they do this +/- 30 seconds time on target. This unique ability is a result of a continued adaption and innovation since the early 1980s.

Today, the United States Army Special Operations Aviation Command (ARSOAC) continues to meet the current challenges, while pursuing modernization efforts to prepare for the next fight in Joint Multi-Domain Operations (JMDO). As the 160th Special Operations Aviation Regiment's and other unit's higher headquarters, ARSOAC has Title X responsibilities of manning, training, equipping and modernizing the operational units. While our people remain our most important resource, our modernization efforts focus on improving operator capabilities through evolutions in technology and capability. These advancements will increase readiness and lethality in the future peer adversarial environments, while enabling or removing humans, when and where able, with the evolution of artificial intelligence (AI).

Our sustainable readiness model (SRM) began well before 9/11 due to

the demand exceeding the supply of ARSOA units. The impact of nearly 18 years of sustained combat operations has placed increased requirements and demands for our force to remain ready and lethal. At the individual level, ARSOAC is enhancing unit programs aligned with USSOCOM's program focused on individual readiness and enhanced quality of life, called Preservation of the Force and Family (POTFF). The pillars of this program include: 1) Human Performance which includes physical performance, physical rehabilitation, working memory, and cognitive load management; 2) Psychological Performance, 3) Social Performance, and 4) Spiritual Performance. These are designed to enhance human readiness, resiliency and life longevity. Individual readiness is a key component to remaining ready to deploy anywhere in the world, on short notice, to enable ground forces to fight and win.

Training

To ensure our battalions remain ready to deploy as an ARSOA Task Force, ARSOAC established an external evaluations (EXEVAL) process to validate battalion commanders and staffs (2-levS ince October 2001, the Army Special Operations Aviation (ARSOA) enterprise has continuously deployed globally in support of SOF ground forces. Executing dynamic missions in challenging environments without fail is the result of our brave men and women.

els down doctrinal process). To maximize the training opportunity, while minimizing increased perstempo, we overlap these EXEVALs in conjunction with battalion training exercises and regimental flight lead evaluations. These complex training exercises, which include a dedicated ground force to enable training objectives, as well external fixed and rotary wing support from Joint and other Components, support mission essential training list (METL) focused and training at echelon. We also generate ready forces through Joint and home station tough and realistic training. We can push crews past failure points through the innovative and integrated use of simulations and simulator training. Sustained readiness allows commanders at echelon to remain laser focused on adapting tactical, operational and strategic capabilities to preserve options for Department of Defense and Geographical Combatant Commanders in support of our National Defense Strategy.

Modernization

Our prioritized modernization efforts focus on providing enhanced combat power for the joint force in the demand-



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ing and diverse environmental conditions we will face. Maintaining a comparative advantage in shoot, move, communicate, survive, and sustain capabilities to meet current and future challenges requires an investment in modernization initiatives and continual refinement of tactics, techniques and procedures in Joint Force interoperability. We are actively pursuing the most practical and cost-effective equipment, while continuing to leverage technology to increase the survivability of our crews and ground force. This includes AI efforts to track and use data to support condition-based maintenance, which will decrease sustainment costs over time that will enable increased investments in other priorities. There are ongoing efforts to optimize our navigation, weapons, targeting, communications and mission command systems and architecture for interoperability and effectiveness in a cyber and electronic warfare (EW) contested environment. This is critical as JMDO will require the ability to operate within adversary domains using air, land, sea, space and cyber space domain systems adding to an already complex physical environment.

In partnership with Army Cross-Functional Team programs, ARSOAC seeks to invest in SOF-unique capabilities, and adapt to emerging technologies and training in order to maintain readiness. Our efforts must encompass lethality, maneuverability, mission command, countering advanced air defense systems, and optimizing our sustainment of combat power. We anticipate the introduction of a longer-range precision munition as an alternative to the Hellfire for the AH-6, MH-60M and Gray Eagle, to allow us to engage targets at greater ranges to increase lethality. We are investing to upgrade our MH-47Gs to close the gap between SOF and Army platforms by providing commonality of parts, reduction of support costs, and cost sharing between Services; the Mission Enhanced Little Bird (MELB) to increase speed, payload, and maneuverability and closely monitoring and supporting the developments of the Future Vertical Lift (FVL) and Future Tactical Unmanned Aerial Systems (FTUAS) programs.

Before a person or platform departs home station, the ecosystem of ARSOA and SOF Acquisition is committed to producing the best capability in people and equipment. Due to the changing global environment and technological advancements, we must keep an eye on the horizon to set the conditions for future missions in a more complex environment. The reality is we will not always have the ability to pick and choose the time and place of the next mission, and we will execute with the equipment we have, not always with what we wished we had. Therefore, as we modernize, we must continue the high level of training, leader development and adaption to new doctrine within our formations. Tough, realistic training that develops leaders and crews at echelon and our honest and professional candid AARs remains the bedrock of readiness.

It is an honor to be part of the great accomplishments of the Aviation community and its support to the ground forces we support. ARSOA cannot exist without the integration, collaboration and support of the rest of the Army Aviation community. We also realize we have the ability to enhance Army Aviation with an exchange of information on successful SOF expedited modernization efforts that enhance lethality and survivability. I remain humbled to serve with the men and women whose honorable and selfless service to our Nation, as well as the sacrifices of their families is inspirational. We are a team of teams and winning is the only acceptable outcome.

Volare Optimos! To fly the best!

BG Allan M. Pepin is the commander of U.S. Army Special Operations Aviation Command located at Fort Bragg, NC.



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ARSOAC Command Chief Warrant Officer Update

Stay Army, Join Special Operations Aviation (SOA) By CW5 David F. Greenwood

The United States Army Aviation Center of Excellence (USAACE) prepares the best aviators in the world for assignment to warfighting units in our Army. "Above the Best" is a motto that every Army aviator knows.



A Green Platoon instructor from the Special Operations Aviation Training Battalion (SOATB) at Fort Campbell, Kentucky observes Night Stalker candidates during a timed road march. Green Platoon is the assessment and selection entry point for all enlisted, officer and warrant officer candidates to serve within Special Operations Aviation.

The United States Army Aviation Center of Excellence (USAACE) prepares the best aviators in the world for assignment to war-fighting units in our Army. "Above the Best" is a motto that every Army aviator knows. It is ingrained in our aviators' ethos that their task is to continually develop individual tactical & technical expertise in their craft to best inform and enable successful Army ground force missions. We exist to support the ground force.

The Aviation Warrant Officer (AvWO) is a critical component of our aviation force structure. Our nation's Army invests millions of dollars in the development and training of each AvWO during their first obligation of service and continue to invest throughout their careers. As the AvWO progresses up through the ranks, their roles become more important to our Army's ability to fight and win tonight. By design, the career status Chief Warrant Officers Two, Three, and Four are the Aviation Branch's journeymen and masters who execute the commander's priorities and training guidance. They do this by assisting in the development and execution of their unit's training plans and equipment sustainment readiness. They are also force generators supporting the pipeline at the USAACE. If you are one of these journeymen/masters, our Army teammates need your continued commitment, mentorship, leadership, and professional example.

If you are looking for a new environment to challenge your unique skills, or are at a decision point to stay in or get out of the Army (but have plenty left in the tank), consider the opportunities that joining the Special Operations team may offer you and your family.

Do you remember the excitement you felt when you received word that you have been selected for Warrant Officer Flight Training (WOFT)? You didn't know what you didn't know, but you knew that you were about to embark on something special. An opportunity that you may have wondered if you would succeed at, now that you were accepted. It was not just another PCS; all of your peers were impressed. You had quietly moved through the packet process and gained support of your company and battalion commanders. You reached out to a senior warrant officer for an interview, no idea how that process would go. You were internally optimistic, but the wait was grueling. Thinking back to this time, ask yourself if you would have regrets if you hadn't applied?

Not unlike the application process that feeds the Army Aviation enterprise, YOU must take the first step to join the SOA team. Fan the flame that burned within you when you applied for WOFT. You don't know what you don't know, but you have already proven to yourself that you have the guts to try. Similar to getting accepted into WOFT, the opportunities for you in SOA are exceptional as you apply

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yourself through your already proven disciplined initiative and motivation. Don't leave a stone unturned in your pursuit to find fulfillment in your Army career.

SOA units are actively seeking AvWO men and women applicants that want to join well-resourced, welltrained and combat ready units. SOA assesses and selects fit, disciplined and motivated AvWOs for assignment. Assignment in SOA guarantees a graduate-level training program that will rapidly enhance your capabilities and skills. A SOA assignment guarantees you the time and resources to focus on planning for and executing realistic, challenging training and real-world aviation missions in all environments. SOA unit members and their families are provided superb family support programs and location and assignment stability. Preservation of the Force and Family (POTFF) initiatives provide world-class services that deliver the tools to build resilience and longevity at all SOA AvWO assignment locations. SOA units normally deploy and train in teams which allows for a more predictable

160th Recruiting Schedule						
	FY 20 (Proposed)					
3-12 JUL	Fort Rucker	7-11 OCT				
15-19 JUL	Hawaii	21-25 OCT				
20-27 JUL	Fort Bliss	4-8 NOV				
5-9 AUG	Fort Campbel	118-22 NOV				
19-23 AUG	Fort Carson	9-14 DEC				
3-6 SEP	Fort Bragg	6-10 JAN				
16-20 SEP						
	8-12 JUL 5-19 JUL 20-27 JUL 5-9 AUG 9-23 AUG 8-6 SEP	FY 20 (Pro- FY 20 (Pro- Fort Rucker 5-19 JUL Hawaii 20-27 JUL Fort Bliss 5-9 AUG Fort Campbel 9-23 AUG Fort Carson 8-6 SEP Fort Bragg				

and flexible individual schedule, allowing better balance between work and family.

Imagine what you can accomplish with the synergy of highly modified mission design aircraft, well-resourced sustainment and modernization programs, working with like-minded motivated teammates. Are you an Aviation Warrant Officer with at least 50 hours Pilot in Command or 500 hours total flight time? The SOA community is interested in having your skills on the team. The Special Operations Recruiting Battalion (SORB) in concert with unit recruiting team(s) offer oneon-one briefings to interested applicants and their families (see 160th Recruiting schedule in this article).

Want to know more? Contact a SORB recruiter today or attend a brief at your duty station.

Contact a recruiter today through our email: 160threcruiters@socom.mil or website: https://goarmysof.com/160th/

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CW5 David F. Greenwood is the fifth command chief warrant officer of the U.S. Army Special Operations Aviation Command (Airborne) at Fort Bragg, NC.



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Organization of Standards

By CSM Billy D. Webb

he accomplishment of every Army Aviation mission is arounded in the strict adherence to a standard, carried out by disciplined and responsible Soldiers and leaders.

Through training and leadership, we deploy tight knit, cohesive teams that are highly capable, adaptable, agile, and effective that follow the standard. Army doctrine, Army regulations, unit regulations, programs of instruction, and unit standard operating procedures provide an understanding of the standard. It requires strong leadership to foster an environment where strict enforcement can be maintained and understood at all levels.

Regardless of the framework used, whether it's time-on-target plus or minus thirty seconds, the Army Special Operations Promise, or the imperatives contained within ARSOA 2028, maintaining a high level of proficiency requires more than strategy - it requires an organizational culture committed to doing what is "right" right the first time - STANDARDS. The end state results in a winning team ready to fight tonight and prepared for tomorrow's challenges.

In the special operations community, we have created a culture of standards by investing in human capital. One of the SOF Truths, "People are more important than hardware," is our most important imperative, and it is constant in everything we do at the Army Special Operations Aviation Command (AR-SOAC). Quality is more important than quantity, the success of any organization is dependent on training and developing Soldiers that possess the following characteristics: high degree of individual character; unwavering professionalism;



A crew chief from the 160th Special Operations Aviation Regiment (Airborne) conducts pre-flight inspections on an MH-47G Chinook helicopter.

adaptable, agile, mission-focused problem solver; team player; perseverance; operational aptitude; and exceptional leadership, judgment, and maturity.

Leaders within the ARSOAC understand that investing in Soldiers leads to mission success and readiness. We provide structured MOS progression, career professional development, talent management and tough demanding training that challenges our Force and our troop training procedures that drives bottom up innovation that evolves our capabilities which leads to success on the battlefield.

The Making of a SOF **Aviation Soldier**

One of the things that makes AR-SOAC unique, is that every Soldier must reaffirm his or her ability to achieve the Army standard prior to being assigned to the organization. All members of ARSOAC are trained and tested in Combat Skills, formally known as "Green Platoon," as part of their accession into the command. There are no "special" standards during Green Platoon training, simply a strict adherence to the Army standard. We aren't trying to exceed the Army standard, but we are trying to be the best at the Army standard. In this context ARSOAC Soldiers can instantly deploy as part of a highly effective team capable of winning in volatile, uncertain, complex, ambiguous, and continually evolving environments.

Beyond Combat Skills

ARSOAC has dedicated training elements within the command, enabling us to maintain 32 in-house, dedicated Army approved Programs of Instructions (POI) that produce ARSOAC Basic Mission Qualified pilots, enlisted Non-Rated Crewmembers, Flight Instructors, UAS Operators, enlisted flight medics, enlisted aircraft maintainers and several other programs that enhance the capabilities of the organization. We invest in numerous low-density programs to professionally grow technically and tactically proficient Soldiers within their career fields. Our young Soldiers are subject to structured MOS progression programs that develop them within their specialty and as a valuable team member. The phrase "Never measure your importance by your proximity to the target" is never been truer and it's these Soldiers that make it happen every day.

Talent Management

The need for competent leaders who are empowered to make critical decisions at their level cannot be overstated when performing combat operations. Understanding that we need competent



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leaders is one thing; how we fill that need is a separate effort altogether. The Professional Ethic and the three pillars of Commitment, Competence and Character require that Soldiers are committed, competent at their job and that they possess values, ethics and morals which lead them to be successful. Early in an enlisted Soldier's assignment to the command, junior Soldiers are given a tremendous amount of responsibility to grow professionally as an individual, as a competent team member, and as subject matter expert within their field. Development models and leaders ensure the time and resources are structured to meet this important requirement. Professional Military Education, broadening opportunities, NCOIC duties of small teams and leadership assignments within the command provide the basis for the solid progression to a professional Soldier. Additionally, the command runs a comprehensive Talent Management program in conjunction with USASOC for all its senior NCOs. This process ensures that we are utilizing the "Talent" correctly across the command and the Army.

Mission Focused Training Model

Another SOF truth is "Special Operations Forces cannot be mass produced." This means that we will go to war with the Soldiers we have today and that makes training (Readiness) a priority within the command. In the next fight there will not be time to ramp up training and therefore we must be ready to meet our adversary with the most lethal force and equipment we have. Training is the cornerstone within our enterprise, with challenging and realistic training being the capstone to setting and maintaining high standards. This approach helped us transition from owning the night to owning the spectrum as we prepare for Multi Domain Operations (MDO). There are two unique characteristics that ARSOAC has when it comes to training. Its habitual relationship with our customers and how we regionally align the operational units allowing our units to capitalize on valuable training exercises around the world as well with the SOF forces assigned within that AOR. These training events not only provide valuable training venues, but they also educate Soldiers about the various AORs and the countries they work in.

The habitual relationship that AR-

Enlisted Aviation Soldier Spotlight

Each issue we will feature a past AAAA National or Functional Enlisted or NCO Award winner as part of our ongoing recognition of the Best of the Best in our Aviation Branch. The CY 2014 National winners were featured in the April/May AAAA Annual Summit issue.

SPC Dolphise Colomb

Company A, Special Troops Battalion, 4th Brigade Combat Team, 1st Armored Division Fort Bliss, TX

2013 Unmanned Aircraft Systems Soldier of the Year

Sponsored by General Atomics Aeronautical Systems, Inc. Editor's Note: SPC Colomb had been promoted to SGT, E-5 before the award was presented.



SPC Dolphise Colomb, Alpha Company, Special Troops Battalion, 4th Brigade Combat Team, 1st Armored Division, demonstrated superior knowledge, professionalism and leadership as a tactical unmanned aircraft systems (TUAS) instructor operator. He quickly rose to the role of subject matter expert, mentor and role model to junior and senior operators alike. Setting the standard for work ethic, he heeded the call of excellence by working long hours to ensure accomplishment of all tasks during system deployment operations. He has proved repeatedly that he is truly the backbone of the unit Tactical Unmanned Aircraft Systems operation. He excelled throughout the challenges of limited equipment, time and personnel. He constantly drives as a professional to perform every task and mission assigned well above the set standards. He meticulously trains and builds his 12 operators towards becoming fully readiness level progressed, totally mission ready and capable; all while maintaining a zero discrepancy and zero mishaps record as an instructor operator during this period. He motivates his subordinates by demonstrating genuine concern for their well-being, assisting them with solid solutions for personal problems.

SOAC has with its customer base is invaluable. When a unit has the ability to work with the supported customer throughout its combat development lifecycle, the training and the standards gleaned serve as combat multipliers that make both the customer and the ARSOA capability stronger. Although combat provides an excellent venue for refining the smallest details, the constant engagement during training in numerous environments and mission profiles serves as the placeholder for exacting standards.

Conclusion

Training and Soldier development programs within the ARSOAC help support the three main imperatives that we have outlined in our future operating concept, ARSOA 2028. In this document we've challenged ourselves to assess the current force, develop the future force, and generate the future force. Being part of a special culture that breeds success requires a significant investment into our training programs and human capital. This investment produces highly competent, committed Soldiers that can be trusted to carry out tough missions around the world. It's these programs that foster an environment or culture of committed excellence towards mission accomplishment and teamwork. The "Love of the Job" is at the heart of every ARSOAC Soldier. So, we will continue to build a commitment to standards with a cohesive professional force focused on successful accomplishment of the mission and will remain postured and ready to execute precise, lethal, and complex mission profiles anytime, anywhere, time on target +/-30 seconds. ARSOAC will continue to enforce strict military standards and build adaptive and innovative leaders that are creative problem solvers that answer the Nation's objectives in a volatile and uncertain global environment.

CSM Billy D. Webb is the command sergeant major of the U.S. Army Special Operations Aviation Command headquartered at Fort Bragg, NC.



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Pilot-in-Command Judgment, Maturity and the Responsibility By COL Christopher W. Waters

A s part of the pilot in command (PC) designation process, a formal face-to-face counseling session or commander's board with the company- or battalion-level commander and other select leaders is an effective way to convey the commander's intent and expectations.

In Army Regulation 600-55, a commander is required to conduct face-to-face interviews with vehicle drivers and trainers. How much more critical is a face-to-face with PCs who will be commanding multimillion-dollar aircraft? Following are a few topic areas commanders can address during a PC counseling session or commander's board..

Expectations

Ultimately, serving as a PC is about decision-making, maturity and judgment. These attributes form the bedrock of the trust necessary to operate – trust from the commander in the PC's ability to employ the aircraft safely; trust from the aircrew and team; trust from the customers onboard; and trust from the supported ground forces. It is important to communicate to PCs that they have your complete trust and support to operate within the limitations of the aircraft, the approved risk assessment and the mission brief. You expect them to take charge when these constraints change and, as importantly, demonstrate sound judgment and maturity in the absence of updated mission intent and approvals.

Be a Leader

A PC is a designated formal leader and standard-bearer in the organization, representing the Army, the unit and the commander internally to the aircrew and team and outwardly to customers and supported forces. As the face of the organization, PCs lead from the cockpit and, in doing so, their words and actions speak on behalf of the commander and unit.

No Such Thing as a Standard Mission

Remind PCs there is no such thing as a routine mission. Every mission requires their best diligence and "game face" from the starter button until rotors stop. Expectations of PCs and their aircrews never waver, and complacency is the enemy of excellence.

When in Doubt - Stop

During mission analysis, address challenging decisions PCs may have to make throughout execution of the mission. If PCs



CW5 Teresa A. Domeier, Army National Guard Bureau (right), receives a capability briefing on the UH-72A Lakota Light Utility Helicopter from CW4 Jeff Caniglia, executive officer, 1st Battalion, 376th Aviation Regiment, Nebraska Army National Guard, at the Joint Multinational Readiness Center's Hohenfels Training Area, Hohenfels, Germany, July 31, 2018.

find their aircraft in a situation where the information available is not sufficient to make a real-time decision to carry on safely and successfully, then they should stop, reassess the situation and amend the mission. If necessary, this should include an updated risk assessment and/or a renewed mission approval.

Follow your Instincts

If something looks or feels wrong, it is probably an indicator that what you are doing is not right. Again, when in doubt, stop, reassess and seek guidance.

Counseling for Other Than First-Time PCs

The commander's counseling for all PCs should cover the same topics regardless of whether it is a first-time PC or the battalion standardization instructor pilot. Knowing your PCs is an important aspect of command and the aviation risk management/briefing process.

Make Counseling a Deliberate Process

The process of earning PC responsibility can be as rigorous as the commander chooses. However, it should culminate in some sort of formal board or counseling, during which the commander clearly articulates expectations for the PC. This reinforces the unit culture and ethos for other select leaders in the unit who observe and participate. Your PCs are the front-line leaders and purveyors of your expectations outwardly for your organization; as such, they should best appreciate and represent your intent and values during mission planning and execution.

Readiness Through Safety!

COL Christopher W. Waters is the deputy commander of the Combat Readiness Center at Fort Rucker, AL.

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n November of 2018, I was honored and humbled to be selected as the first Assistant Director for Aviation and Safety.

The Chief National Guard Bureau (NGB) and the Director ARNG initiated a number of changes in the positioning and responsibilities of senior leaders on the NGB Staff, one of which was a new position for a General Officer Aviator. I want to take this opportunity to share with you some of the background of this change and the vision going forward.

A New Era

The position and assignment of an Assistant Director for Aviation and Safety marks a new era for not only ARNG Aviation but Army Aviation as a whole. Senior NGB leaders believed it was time to place a general officer on the ARNG Staff to represent the ARNG across the Aviation Enterprise. The Department of the Army, having established a general officer position (DAMO-AV) a number of years ago, identified the need for senior aviation leader management and oversight across the Army. Along those lines a General Officer Aviator as an Assistant Director will provide similar affects across the ARNG. Given the monetary investments in Aviation along with operational employment and the associated risks in Aviation proportional to the rest of the Army, establishing this general officer billet sets the conditions for not only ARNG success but Army success.

Although the ARNG had general officer aviation representation in the past, this position is now more formalized and embedded within the NGB staffing architecture. With the ARNG operating over 1,400 rotary/fixed wing aircraft and possessing a significant amount of the Total Army's aviation force structure, a senior ARNG Aviation General Officer can enable integration and synchronization of priorities for ARNG Aviation and provide input to better define end states across the Aviation Enterprise and amongst the three components. An Assistant Director has authorities to speak for and represent the Director and can ensure strategic and holistic approaches are occurring that address the most pressing and difficult matters for the ARNG. In addition to Aviation and Safety, this new position will also provide oversight and guidance to the ARNG G2, G6 and the Cyber Division.

The Aviation and Safety Division

Some might ask; how does this new position impact the Aviation and Safety Division? It won't. Over the last six months we have sorted out many of the lines of effort and responsibili-



MY NATIONAL GUARD PHOTO

Temple Army Readiness Center, Army National Guard, Arlington, VA.

ties and determined focused priorities. COL Joseph Bishop, as the division chief, executes the day to day operations of the Division within the ARNG Directorate. The Aviation and Safety Division Chief remains responsible for providing the resources, strategic guidance, policy, and staffing assistance to the States, and coordinating with Department of the Army, NGB, and other government agencies in support of the ARNG State and Federal mission.

COL Bishop came to the NGB Aviation and Safety Division from the North Carolina Army National Guard. His most recent assignment as commander of the 449th Aviation Brigade, which was recognized as the 2018 AAAA Outstanding Aviation Unit of the Year and the 449th's highly successful deployment adds tremendous value to the ARNG Aviation Team. Over the past several months Joe has picked up the reins and assumed the helm for tackling the diverse challenges facing ARNG Aviation across the 50 States, 3 Territories and the District of Columbia.

It is my intent to provide a consistent, enduring voice for ARNG Aviation as envisioned by Chief NGB, and the Director ARNG. I look forward to my continuing role for the Army National Guard in this new position and working with the leadership of the entire Army Aviation Enterprise as we rapidly approach the third decade of the 21st Century and lay the groundwork for significant Army Aviation changes in the future. Fly Guard.

BG J. Ray Davis is the assistant director of the Army National Guard for Aviation and Safety located in Arlington, VA.



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Tech Talk

T55 Engine Air Filtration Systems

By Mr. Toney Heathington

DEVCOM

M ilitary aircraft engines need clean air and lots of it. U.S. Army aircraft routinely operate from unimproved landing zones where the rotor systems stir up dirt and debris and the ingestion of sand and dust particles is a certainty in desert/arid environments.

Ingesting this debris has a very negative effect on engine serviceability. Sand ingestion not only abrades the compressor and turbine engine blades but degrades compressor and turbine liners. The extreme heat causes any fine sand/dust that gets into the cooling passages inside the turbine blades to melt and form glass, blocking the cooling airflow quickly leading to turbine degradation. The end result is loss of power, significant maintenance, and readiness impact for replacement or repair of an expensive engine.

To solve this problem, the U.S. Army developed an engine air particle separator system for the CH-47. This separator system uses hundreds of vortex tubes to swirl the incoming air, causing contaminants to separate from the air stream by centrifugal force. The core of clean air is ducted to the engine inlet plenum, while the heavier contaminant particles are slung to the outside of the tubes and discarded overboard by a scavenge fan. This system provides a significant reduction in wear to the engine.

Currently the MH-47 is operating without the benefit of an engine air filtration system. To prevent large pieces of debris that would physically damage the engine, a conical screen known as the All-Weather Screen (AWS) is installed on the engine inlet. While this prevents foreign object damage it does little to prevent sand ingestion issues. The U.S. Army has moved forward with a modern technology to help provide clean air to the engines as well as reduce the weight and performance impacts. The Engine Barrier Filter (EBF) system is a high efficiency filtration system that reduces the ingestion of AC Coarse and AC Fine specification sands (per SAE J726),

AWS VS EBF - % TORQUE IMPACT AT MRP					
Conditions	AWS	EBF	Delta		
SL/SD Hover	124.4	123.3	1.1		
SL/SD 140 Knots	122.6	120.9	1.7		
4K/95 Hover	95.7	94.9	0.8		
4K/95 140 Knots	93.3	91.9	1.4		

Figure 1.



MH-47 with Engine Barrier Filter testing.

vastly reducing damage to the T55-GA-714A engines used on the MH-47 Helicopter. This EBF is showing considerable promise in meeting the desired key performance parameters.

Restricting airflow comes with a cost. The EBF's impact on engine performance, in particular torque available, is determined by the total pressure recovery in the inlet. Total pressure recovery is defined as P_{T1}/P_{T0} where P_{T1} is the total pressure at the engine inlet and P_{T0} is the freestream total pressure. Pressure recovery is actually a combination of two physical phenomena: 1) The ram air that is recovered by the inlet and 2) The total pressure losses of the inlet. The inlet pressure losses are the result of turning air and friction, including the total pressure drop through porous media such as screens and filters. An "ideal" inlet would have a pressure recovery of 1.0. The pressure recovery typically decreases with increasing flight airspeed. In addition, the pressure loss tends to increase as airflow increases through the inlet. The impact on torque available based on the P_{T1}/P_{T0} of the clean EBF is less than 2% for almost the entire operating envelope and power spectrum and is summarized for Sea Level / Standard Day (SL/SD) and 4,000 feet / 95° F (4K/95) at Maximum Rated Power (MRP) in Figure 1.

A barrier filter system can be a maintenance challenge since the pressure recovery drops as the filters collect more dirt. When tested in the 'dirty' configuration the torque impact was as high as 6% @ SL/SD-140 Knots. However, a power management method is being developed that will allow an estimation of ~ 2% loss for mission planning purposes.

Qualification is nearly complete for the MH-47 EBF system and testing has proven it meets and/or exceeds the major program KPPs. The EBF has the future potential to provide copious clean air for MH-47 engines while providing exceptional dust, sand, and dirt separation efficiencies.

Mr. Toney Heathington is an aerospace engineer in the U.S. Army Combat Capabilities Development Command Aviation & Missile Center Aviation Engineering Directorate, Special Operations Aircraft Division at Redstone Arsenal, AL.

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How to Find Help: Accessing Behavioral

Healthcare for Soldiers By CPT Joseph R. Adams, DO and MAJ Ryan Green, PhD

Q I'm a member of the National Guard and need help working through some personal problems. Who can I talk to?

FS: This is an excellent question, as accessing healthcare resources can be challenging for National Guard Soldiers. While access to care in a crisis is always available through the U.S. Department of Veterans Affairs (see contact information below), seeking care for a non-crisis related concern may seem daunting. Not all life events are easy to cope with and managing things on your own can be especially difficult. Realizing this early on and seeking assistance is key to preventing your concerns from snowballing.

Army Behavioral Health providers evaluate and treat Soldiers with many different needs including but not limited to marital issues, stress, trouble sleeping, substance use concerns, anger management difficulties, depression, anxiety, and post-traumatic stress disorder (PTSD). They are here to help get you feeling better and back in the fight. If you do not know who your unit Behavioral Health Officer is (usually a psychologist or social worker) and do not have access to a Military Treatment Facility, there are many people in your unit who can point you in the right direction including your chain of command. Of particular note is your unit Chaplain who can be an incredible resource to talk to as well as to assist you in seeking care.

The healthcare of Army Aircrew must involve an aeromedically-trained provider. That doesn't mean you can't be seen by providers who are not aeromedicallytrained. Any healthcare specialist can work in coordination with an aeromedically-trained provider to make sure you receive the appropriate care.

Q: But if I seek help won't they ground me?

FS: This is a common concern that may keep Aircrew from seeking help.

However, the primary goal is to keep you flying as safely as possible. While it may be necessary to issue a temporary downslip during the course of your evaluation and treatment, in the long run you will avoid more serious problems. When addressed early on, many common reasons for which Aircrew seek help are listed as "for information only" in the flight physical and do not require a waiver. When medications are necessary, a 4-month down-slip will be required to ensure correct dosing and to monitor for medication tolerance. Problems arise when Aircrew wait too long to seek help; early intervention is highly encouraged. Often a delay in reaching out for assistance can compound the problem resulting in a longer duration of grounding.

Q: How do I know if I have a problem?

FS: If you feel like things are becoming difficult to manage on your own, feel out of control, or feel like you are in a downward spiral you should seek help. You can also take a self-check quiz at *https://www.vetselfcheck.org/welcome.cfm* to help determine if behavioral health concerns may be affecting you. Here are some general signs and symptoms to look out for:

Depression

- Feeling or being told that you seem down or depressed
- Having less interest in doing things that you used to enjoy
- Unintentional weight loss or gain
- Eating too much or too little
- Sleeping too much or too little
- Lack of energy
- Poor self-esteem
- Difficulty concentrating and making decisions
- A sense of hopelessness

• Thoughts of suicide (If you are having thoughts of suicide call the crisis line (see contact info below).

Anxiety

- Feeling worried, restless, or on-edgeEasy fatigability
- Having trouble concentrating
- Irritability
- Muscle tension
- Difficulty sleeping

Sleep Disorder

- Difficulty falling or staying asleepBeing told that you stop breathing
- intermittently during sleep
- Feeling fatigued during the day
- Falling asleep unintentionally during the day

Substance Abuse

- Often taking larger amounts or over a longer period than was intended
- Feeling like you need to cut back
- Spending an unusual amount of effort in obtaining, using, or recovering from use
- Cravings
- Failures to fulfill obligations at home, school, or work resulting from use
- Continuing to use despite recurrent social or interpersonal problems
- Giving up important activities due to use
- Recurrent use in dangerous situations
- Experiencing tolerance to or withdrawal symptoms

Anger Management

- Failure to control aggressive impulses leading to verbal or physical outbursts
- Aggressive behavior that is out of proportion to the provocation
- The behavior causes you distress or results in difficulty in social situations

Any combination of the above symptoms that result in a negative impact in your work or personal life should be evaluated. Whatever component you are in, we encourage you to seek help for your concerns. You are not alone and help is available.

Contacts

U.S. Department of Veterans Affairs Crisis Line (available 24/7 365 days a year) Dial 1-800-273-8255 and Press 1 to talk to someone. Send a text message to 838255 to connect with a VA responder. Start a confidential online chat session at *VeteransCrisisLine.net/Chat* Take a self-check quiz at *VeteransCrisisLine.net/Quiz* In Europe: Call 00800 1273 8255 or DSN 118 In Korea: Call 0808 555 118 or DSN 118 In Afghanistan: Call 00 1 800 273 8255 or DSN 111

Questions?

If you have a question you would like addressed, email it to *AskFS@quad-a.org;* we'll try to address it in the future. See your unit flight surgeon for your personal health issues.

The views and opinions offered are those of the author and researchers and should not be construed as an official Department of the Army position unless otherwise stated

CPT (Dr.) Joseph R. Adams is a flight surgeon and MAJ Ryan Green the chief of Human Factors and Aeromedical Psychology at the United States Army School of Aviation Medicine (USASAM), Fort Rucker, AL.



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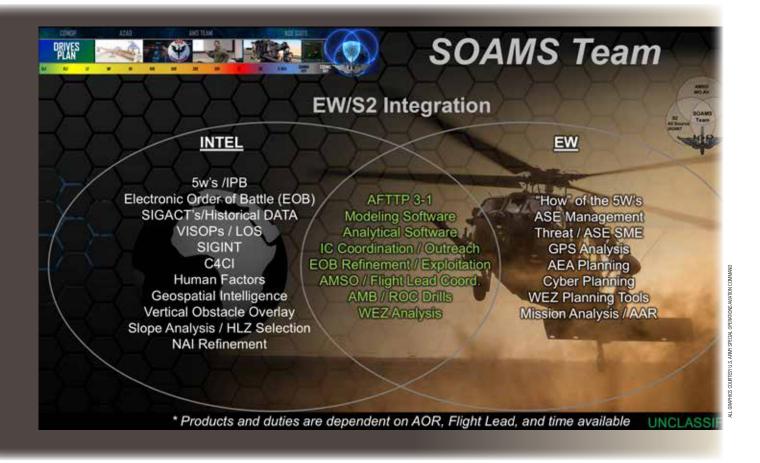


Special Focus > Army Special Operations Aviation

Special Operations Aviation Mission Survivability Team –

Owning the Spectrum for Tomorrow's Fight

By MAJ Zachary Dadisman, MAJ Evan Westgate, CPT Brandon Jack and CW4 Thomas Schneider



he National Defense Strategy (NDS, 2018) and ADRP 3-0 (2017) serve as key policy and doctrinal sources for the Department of Defense's focus shift toward Great Power Competition preparedness. The United States Army Special Operations Command (USA-SOC) "USASOC 2035 Campaign Plan" (2017) further specifies require-ments investment in "ARSOF rotary wing and unmanned platforms to penetrate integrated air defense systems." The 160th Special Operations Aviation Regiment (160th SOAR) is holistically invested in pursuing competitive advantages over the Nation's adversaries through a shift of focus from "owning the night" to "owning the spectrum."

Integrated Air Defense Systems (IADS) threats pose unique challenges to Army Aviation - challenges generally not encountered during the last 18 years of counterterrorism and counterinsurgency operations. Great power (peer, near-peer) adversaries will seek to employ anti-access and area-denial (A2/ AD) capabilities to deny Army Aviation freedom of maneuver throughout the joint operations area (JOA). As Special Operations Forces shift focus, the 160th SOAR is adjusting to conduct operations in contested environments that operate robust, modern integrated air defense networks.

Deliberate, joint planning incorporating inter-service and cross-functional Shared tasks between the 160th SOAR Electronic Warfare section and the Regiment Intelligence section during Denied Area Planning. The graphic was created by 160th SOAR (A) CEMA Cell and RS2.

expertise is crucial for successful course of action development in A2AD environments. The 160th SOAR employs Special Operations Aviation Mission Survivability (SOAMS) teams to leverage the subject matter expertise required to conduct detailed mission planning in order to avoid or mitigate detection in denied or semi-permissive environments where "high end" threat systems are employed. Composed of multi-discipline intelligence profes-

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www.eclypse.org sales@eclypse.org (951) 371-8008 sionals, cyber electromagnetic activities (CEMA) personnel, and aviation mission survivability officers (AMSO), the SOAMS team concept was first implemented and tested during the annual Special Operations Aviation Advanced Tactics Training (SOAATT). Each team member brings a unique skill set with them in a collaborative planning environment to solve the complex problem set of mitigating tactical risk during operations.

Army intelligence professionals, sensitized to the unique needs of SOAR aircrews and platforms, seek to develop a comprehensive understanding of the operational environment. Intelligence specialists from all disciplines must work together to provide a detailed characterization of the battlespace and the threat. With a detailed understanding of the unit's unique intelligence requirements, dedicated Signals Intelligence Analysts, Imagery Analysts, and All-source analysts collaborate with experienced operational planners to ensure they piece together the most accurate picture of the environment. Analysts conduct detailed multi-functional analysis to determine suitable air avenues of approach, mission support sites, and landing zones. The latest enemy orders of battle are checked and updated to show enemy composition, disposition, and strength. All-source analysts assess the most likely and dangerous courses of action for all threat entities within the area of operations, to include police, paramilitary, and civilian populations. During this process, analysts continuously collaborate with other SOAMS team members and staff functional sections, creating a holistic understanding of the JOA.

CEMA is the bridge from intel analysis to tactics. CEMA NCOs at each battalion provide detailed and tailored electronic order of battle (EOB), threat, and route analysis products to 160th SOAR flight leads and planners. This is done by utilizing advanced mission planning tools, electromagnetic spectrum (EMS) analysis, and coordination with joint cyber, space, and electronic attack enablers. The construct of the small team enables flexibility and timely contributions to the aviation mission planning process. CEMA NCOs work together throughout the planning, execution, and post mission analysis with both 160TH SOAR intel personnel and AMSOs. A strong relationship among the SOAMS team members enables the quick production of extremely detailed planning support products.

While the input of intelligence and CEMA subject matter experts is important, the AMSO is key in implementing the detailed products and recommendations from the intelligence and CEMA personnel. The AMSO assess these products through the lens of an experienced aviator, and selects the appropriate tactics, techniques and procedures (TTPs) necessary for success in contested environments. The close collaboration of all three disciplines (Intel, CEMA, and AMSO) promotes the detailed planning required to succeed in expected future missions.

Implementation

160th SOAR training focus has included denied airspace penetration since the unit's inception in the early 1980s. However, continuous operational deployments in support of the Global War on Terrorism since October 2001 increasingly steered exercise scenarios into the semi-permissive realm to replicate the missions being performed nightly in theater. In the 2015-2016 timeframe, leaders at the Regiment and battalion levels recognized and set



out to address the near-peer training gap brought on by years of nearly singular focus on counterterrorism and counterinsurgency support in semipermissive operating environments. Incidentally, 160th SOAR combat rotary wing mission tactical tasks at the target are generally the same regardless of the threat environment. Raids, for instance, require the same terminal area crewmember skills in both semipermissive and highly contested RF threat environments. Altitude, LZ selection, weather, dust, fields of fire, etc. remain the primary considerations at the target irrespective of the threat or lack thereof between the intermediate staging base (ISB) and the target. By infusing en-route A2AD problems into training scenarios, 160th SOAR can sharpen skills in the electronically contested environment while sustaining combat power in the current fight.

Evidenced by countless tactical successes and feedback from SOF ground forces across the Joint Services, the traditional bottom-up driven 160th SOAR training model works. The challenge faced by the unit was to create a program to target senior trainers (instructor pilots and AMSOs) that it could overlay on the existing model without upending the training paradigm that has served the unit so well.

SOAATT, first executed in 2016, emerged as the capstone event for the 160th SOAR's effort to educate the force for fighting in an electronically contested environment, develop tactics, and test equipment and techniques against threats. It is a joint, inter-agency train-the-trainer (or *educate* the trainer) program designed to provide graduate level tactics experience to the unit's primary trainers, enabling them to carry lessons learned back to battalion level exercise scenarios for the broader force's exposure. Active throughout the year as a function of the Regiment Futures OPT (a standing OPLAN-focused team that maintains running estimates on 160th SOAR-apportioned plans) and as subject matter experts on other exercises, the SOAMS team serves as the centerpiece when staff and crews from all airframes across the Regiment come together annually for SOAATT. This builds familiarity with crossfunctional capabilities among senior aircrews as participants and equipment are put to the test in the classrooms and simulators at Ft. Campbell during Weeks 1 and 2 and on the China Lake Born from a Legacy of Mission-Proven Performance



Naval Air Station ranges during the event's third week.

To reinvest the dividend from this high-end training, lessons learned from iterative flights on the EW range and culminating full mission profiles (FMP) are captured and carried back to the battalions by participants for implementation into company and battalion exercises. This directly addresses 160th SOAR's gap for being able to validate units in a near peer environment that existed in previous years. As the Army returns to decisive action (DA) scenarios with IADS at its Combat Training Centers (CTC), 160th SOAR will seek opportunities to support the special operations forces (SOF) ground elements and integrate with conventional maneuver elements in the JOA.

MAJ Zachary Dadisman is the regiment operations officer (RS3), MAJ Evan Westgate is the regiment intelligence officer (RS2), CPT Brandon Jack is the regiment cyber and electronic warfare officer and CW4 Thomas Schneider

is the regiment aviation mission survivability officer assigned to the 160th Special Operations Aviation Regiment (Airborne) at Ft. Campbell, KY.



Special Focus > Army Special Operations Aviation

Bridging the Aviation CBRN Gap

By CPT Nickolas Nagel and MAJ Paul Neal



n the past three years the U.S. military has increased its focus on high intensity conflicts in a near peer environment. This dynamic battlefield environment will pose new threats with old ones reemerging. Among those old threats is the combating of weapons of mass destruction and the potential for their use on the battlefield. In anticipation of this dynamic and complex threat the 160th Special Operations Aviation Regiment (Airborne) has placed special emphasis on training and refining its tactics, techniques and procedures as they pertain to chemical, biological, radiological, nuclear (CBRN) training, and equipment.

Realistic, Dynamic and Threat Focused Training

Facilitating training events and exercises that incorporate realistic CBRN scenarios is critical to achieving productive training. Too often, CBRN training is relegated to fulfilling the Level 10 tasks outlined in AR 350-1, which does not provide pilots and aircrews with a realistic and relatable training program. The threats in a CBRN environment are versatile and complex, a reality which the 160th seeks to replicate in its training program. CBRN personnel from the 160th Special Operations Aviation Regiment (Airborne) perform aircraft and equipment decontamination on an MH-60M Black Hawk during a training exercise.

In order to achieve its CBRN proficiency the 160th has taken a phased approach beginning with individual training and culminating in 100% masked, multi-ship helicopter assault forces (HAFs) conducting full spectrum night vision goggle (NVG) flight operations. Training begins with CBRN academics which cover Level 10 tasks and discuss different ways aircrews can wear their personal protective equipment (PPE) dependent on airframes. Classes generate a broader understanding of the various CBRN threats that might be encountered and their implications.

Simultaneously, companies develop flight training programs to build and maintain flight proficiency through the "crawl, walk, run" method. Progression begins with less than 50% of the aircrew masked, conducting day only tasks then progresses to full aircraft crews operating masked.

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EXTENDING THE EDGE NETWORKING THE FORCE

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Once proficiency is gained as an aircrew in both day and NVG flight tasks, training is expanded to include multiple aircraft in mission oriented protective posture (MOPP) operating as a team in day then NVG profiles. Finally training progresses to a multi-ship HAF flying first in day profiles then under NVGs. During each phase of training, the rated crew member's proficiency is meticulously monitored and recorded by the standardization instructors. Using this phased approach, the 160th has safely progressed to battalion level exercises with 100% crew masked night operations that culminate with the establishment and utilization of personnel and aircraft decontamination sites.

Mission Planning

CBRN training should be approached with flexibility in the planning process. While doing so, CBRN subject matter experts (SME) should focus on guiding mission planners towards adhering to the CBRN principles of Avoidance, Protection, and Decontamination, in that order. A close integration of CBRN SMEs and planning cells is integral to facilitating a sustained CBRN training focus that does not overshadow the entire exercise if that is not the commander's intent. The CBRN SMEs conduct in-depth threat analysis and provide commanders and planners with options and guidance when conducting flight operations in a CBRN environment. Armed with detailed information, pilots are able to assess the best possible method for contamination avoidance. Integrating the CBRN SME into the process allows commanders to develop training events that can touch on various threats ranging from chemical to radiological without having a contamination event disrupt other training objectives.

Battalion commanders nonetheless must place emphasis on the development and sustainment of their organic operational decontamination capabilities. The U.S. Army's CBRN units are a limited asset and in accordance with ATP 3-11.32 operational decon should be conducted at the battalion level. Augmenting the decon team with maintenance and support personnel from across the battalion has proven to be a sustainable and effective concept. Integration of the medical section with the CBRN section is critical when it comes to the treatment of casualties on a contaminated battlefield. CBRN and medical considerations are both contingency scenarios that cannot be trained, planned and executed exclusively from one another.

Decon Equipment

The 160th utilizes Modified Table of Organization Equipment (MTOE) equipment and commercial off the shelf (COTS) items to develop and build its decon equipment package. The unit's standard package consists of a COTS Fogbooster apparatus through which GD-6 is applied to the aircraft interior in the form of a fine mist, so as not to cause water damage to critical interior components. For the aircraft exterior a Macaw backpack by Inteligard that produces compressed air foam in order to apply DF-200 decontaminant is used. The center piece of this package is the M26 JSTDM, which utilizes highly pressurized and heated water to wash the DF-200 decontaminant off the aircraft exterior. In order to provide the significant amount of water required for decon operations, a 500-gallon fuel blivit is employed. The utilization of this fuel blivit provides the battalion with more flexibility regarding where and how the decon site is established as well as integrating it with forward area refueling point (FARP) operations. The Expedient Personnel Decontamination System (EPDS) has proven to be a reliable and expeditionary system for personnel decontamination. The system can be broken down into three duffel bags and weighs less than 150 pounds combined.

For detection of chemical warfare agents (CWA) and toxic industrial chemicals or materials (TIC/TIM) the M4 Joint Agent Chemical Detector (JCAD) is employed. This allows the decon team to verify that any contamination remaining on or inside the aircraft will cause no immediate danger to life or health. The shortcoming of this detector though is its ability for low threshold detection. Regarding radiological hazards such as beta and gamma radiation, the VDR-2 detector and UDR-13 dosimeters are utilized. For alpha particle radiation a PRD-77 radiac detector is employed.

Lessons Learned

Over the past year the 160th has pursued the ability to achieve a Thorough Decontamination capability. Before doing so it sought to determine a quantifiable definition of Thorough Decon for aircrews and pilots specifically. The U.S. Army Public Health Command's RD230, establishes that contamination must be reduced to a level below an Acute Exposure Guideline Level-1. Below this level the RD230 states that humans will no longer experience any form of miosis, nausea, or issues with depth perception. Achieving a level in which these possible symptoms have been eliminated will restore pilots' abilities to execute precision rotary wing assault and close air support tasks. Currently there are no metrics or reliable low threshold detection capabilities that will arm commanders with the necessary data to gauge the risk they may or may not be accepting in resuming flight operations in limited PPE.

The Joint Service Aircrew Mask (JSAM) is a "game changer" when it comes to the ability of aircrews to reduce time in mask but still react expeditiously if exposed to a CBRN threat. Not only has it shortened the time it takes to don one's mask, but it also increases aircrews' chances of survival in the event they are required to perform emergency egress procedures after ditching overwater. The JSAM's quick detachment face piece now gives the crew member the ability to access their Helicopter Emergency Egress Device System (HEEDS) without having to remove their flight helmet and doff their mask. The JSAM is also better designed to be worn under a flight helmet. The improved comfort is vital during extended missions.

The potential for conflict with near-peer adversaries in a CBRN environment is increasingly present. The 160th continues to pursue multiple avenues to ensure the force is prepared. Habitual interaction between commanders, air mission planners, and CBRN SMEs ensures complex, realistic CBRN training scenarios. While a deliberate, phased progression program gradually prepares aircrews to accomplish multi-ship HAF missions in full MOPP posture, under NVGs, with realistic decontamination procedures. Avoidance is always the goal in a CBRN environment, as with any fight, preparation and training is our best chance

for success.

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Prepare for A2AD

By MAJ Chip Colgary and CW4 Dan Cosson

he 2018 National Defense Strategy (NDS), focuses on sharpening the American Military's competitive edge to compete, deter, and win in a more competitive and dangerous security environment than we have seen in generations. It prioritizes long-term competition with China and Russia, while also seeking to deter and counter rogue regimes such as North Korea and Iran. The NDS uses the terms anti-access/ aerial denial (A2/AD), electromagnetic spectrum, and electronic warfare over two dozen times, in context alongside continuous references to the countries above; it is clear the Secretary of Defense fully understands the challenges our current force faces to fight and win against a near-peer military force.

ARSOA MH-47G accelerates to conduct CONUS training

While our military has been at war for nearly two decades, this is a new type of fight few of us have yet seen or imagined. A fight where flying at night will no longer be a cloak of protection and the greatest threat will not be small arms and rocket fire. It is also one where tactics employed by many aircrews over the last decade will get them killed, quickly. We need advanced aircraft systems, survivability equipment, and planning tools to gain a tactical advantage- all of which will be useless without greater access to information and using that information to reshape how we train.

Training for the New Fight

Indeveloping a training methodology for this new fight, remember that the Army is not alone. Emphasis on the term "Joint" cannot be overstated. Just as an aviation mission survivability officer (AMSO) will not be expected to plan to penetrate a denied area in a bubble, Army Aviation branch will not fight and win in a denied area alone. For years, Army Special Operations Aviation (ARSOA) aircrews have participated in courses at the Marine Corps Weapons & Tactics Instructor (WTI) course, as well as the Air Force's Weapons School, as both teachers and students. We also regularly participate in large scale joint exercises that support these schools such as the 14th Weapons Squadron. In any future conflict, whether on Day 0, or Day 45, Army Aviation will be expected to directly contribute, likely with portions of a robust enemy integrated air defense system (IADS) still in place. We will do so successfully by fighting with and alongside our sister services and leveraging joint capabilities.

A way our sister services addressed training deficiencies in this arena was with advanced tactics schools. Unfortunately, there is no Army Aviation equivalent to Top Gun, Weapons School, or WTI. We are also the only branch that doesn't own its own electronic combat range (ECR). To be a "Patch" in the Air Force, a pilot must first be an experienced instructor pilot and apply to attend the arduous Weapons School. Upon graduation, they become a tactics instructor. The Chief of Tactics (always a "Patch") assigned at various levels throughout the Air Force is the de facto expert in their field. All ARSOA's battalion and higher AMSOs are also instructor pilots and most are flight lead qualified. This represents our first steps at mirroring the joint approach to developing Army Aviation tactics instructors.

The Army TACOPS course is not intended or designed to be a graduate level course like the schools mentioned above. To build on that foundation, after attending the TACOPS course, ARSOA AMSOs attend a variety of other joint services schools. To bridge the gap between schooling and practical experience ARSOA developed Special Operations Aviation Advanced Tactics and Training (SOA-ATT). Over the course of a month, experienced ARSOA aviators are exposed to graduate level denied area simulations, academics, and mission planning scenarios. Members of the National Intelligence Community (NIC) give classes on pertinent subject matter, alongside vendors and engineers who support our aircraft survivability equipment. The event culminates with a full mission profile event executed on an electronic combat range with joint assets.

Simulation

While simulation has a pivotal role to play in training for denied areas, it is not a replacement for a live ECR. For a Commander to place his forces in harm's way, he must be able to adequately assess the level of risk he is being asked to accept. Such determinations cannot be made based on experience gained solely in a simulator. Tactics can't be developed solely in a simulator, nor can aircrew proficiency and confidence truly be measured and built in one.

Once tactics are fully tested and evaluated on live ranges, simulation absolutely should play a key role in aircrew proficiency training. Even if the Army builds a range tomorrow, not everyone will be able to fly on it regularly enough to build true proficiency. Simulation is perfect for that, while a live range should be thought of as the equivalent to a combat training center (CTC) rotation where the years' worth of training and preparation are validated.

Proficiency in Old and New Tactics

We must also be open to learning new tactics and relearning some old ones. For many sound reasons, flying at high (above ground level) altitudes is the only way of doing business many in our community have ever known. Low level flight is a lost skill, and one that must be mastered again. Our ability to fly low is one of the single greatest advantages helicopters have in denied areas. The low-level environment (less than 100' AGL, sometimes much less) greatly mitigates many risks, but does uncover other challenges that require thorough planning, training, and experience to surmount. Waiting for the war to start, where low level flight is the only option, is not the time to start relearning these skills.

Equipment

While experienced and knowledgeable crews will always provide the decisive advantage in conflict, some equipment considerations cannot be ignored. The radar warning receiver (RWR) is the cornerstone of any aircraft survivability equipment (ASE) suite and is foundational to any serious attempt to trespass into a denied area. Beyond providing a strictly operational capability, ARSOA's advanced RWR incorporates a training mode that allows AMSOs to program threats to appear on the display during flight at pre-determined locations. The threat displays like a live threat would and an aviator can be evaluated on their reaction to contact. That means we don't have to rely on limited ECR opportunities or simulators. We can, and do, accomplish ASE phase progression training, in our assigned aircraft, utilizing this capability. We have also utilized this capability, along with supporting intelligence and electronic warfare products, to create multi-week long, multi-ship battalion situational training exercises. We can effectively recreate real world orders of battle in our local flying area and train to specific scenarios. This has greatly increased the number of denied area training reps our crews get throughout the year.

The fight of the future has become the fight of today; the 2018 NDS makes that clear. We must begin reprioritizing efforts away from counterinsurgency (COIN) and place greater emphasis on A2AD. That means we need better training for AMSOs and to develop cross functional teams of subject matter experts that can leverage the capabilities of the NIC. We need modern aircraft survivability equipment that provides increased operational capability in combat and can be used during training at home station. Finally, and most importantly, we need to develop better base tactics and capitalize on opportunities to train those skills at dedicated Army ranges.

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sion survivability officer for 3rd Battalion, 160th Special Operations Aviation Regiment (Airborne) at Hunter Army Airfield, GA.



Special Focus > Army Special Operations Aviation

ARSOA & AFSOC:

Leverage Training Opportunities with a Focus on Near-Peer Threats

By MAJ David Aamidor and Maj. Ryan Taylor (USAF)

t is possible to imagine a future con-flict where the United States military does not enjoy the technological advantage we have come to expect over the past two decades. Our nation's competitors and adversaries have witnessed our military in action, and they have evaluated our strengths and weaknesses, developing weapons to exploit our real and perceived vulnerabilities. Our relative technological overmatch has been undermined by the development and proliferation of advanced weapon systems designed to prevent our military's access of territory or encumber our ability to traverse the land, air, or sea. These anti-access/area denial (A2AD) weapons will certainly play an important role during conflicts in the future and are already present in close proximity to our allies and deployed forces. Furthermore, according to a 2017 RAND study, adversarial nations, such as Russia and Iran will continue to increase their A2AD capabilities, further diminishing our relative advantage.

Army Aviation may be uniquely vulnerable and exposed to these threats and must therefore focus our training and technological resources towards survivability and lethality in these environments. Required by design to penetrate and transit denied areas, potentially prior to the establishment of air superiority, Army Special Operations Aviation (ARSOA) cannot underestimate our adversaries' capabilities. While these challenges continue to be addressed and evaluated, preparing for these types of conflicts is resource intensive and must include the actual simulation of operations within denied areas.

As an added challenge we must continue to support ground forces in deployed areas while also preparing our aircrews to fight against adversaries with distinctly different capabilities than we have witnessed during the previous two decades. While no branch within the military is immune to these threats, ARSOA must strike a balance between preparing aircrews for the present fight and preparing for the future; finding training environments where both can be accomplished is imperative.

Bilateral Training

Since 2016, 4th Battalion, 160th Special Operations Aviation Regiment (Airborne) (SOAR(A)) and the U.S. Air Force 14th Weapons Squadron have conducted bilateral training centered on the Weapons School Integration (WSINT) exercises. WSINT is the capstone of the six-month Weapons Officer Instructor Course consisting of large force exercises, which provide a unique and training rich environment focused



on preparing forces to fight and win against near-peer competitors. Air Force weapons officers are tactical experts that specialize in integrating combat capability across the military domains and services to help win America's next war. Located at Nellis Air Force Base in Nevada, WSINT provides air crews with access to environments which not only simulate harsh desert and mountainous environments (where crews regularly operate overseas) but as importantly, an area well suited for advanced aircraft survivability training focused on future threats. Beyond the unique ranges and environments present around Nellis AFB, WSINT brings together platforms with diverse capabilities including Intelligence, Surveillance, Reconnaissance (ISR), Suppression of Enemy Air Defense (SEAD), Strike, Electronic Warfare (EW), Space, and Cyber from all branches of the military. Participants



in the WSINT exercise are presented with challenging scenarios, simulating contemporary threats, and must plan collaboratively to ensure survivability and lethality. A detailed understanding of the enemy's strengths, weakness, and vulnerabilities is presented allowing participants to employ the right assets at the right time in order to achieve desired effects.

ARSOA crews and aircraft have been an integral part in many of these training scenarios during WSINT, conducting for example direct action infiltrations which are reliant upon both onboard survivability equipment and Joint enablers for survivability and success. While such scenarios during WSINT resemble missions regularly conducted in our contemporary conflicts, incorporating denied-area planning and execution adds an additional level of complexity which is focused on future threats and A2AD challenges. Furthermore, the WSINT environment allows crews to improve their tactics and procedures. During after action reviews and debriefs crews can access data and evaluate their performance for, among other factors, survivability. This facilitates the refinement of tactics in a manner that could only otherwise be accomplished during a real-world deployment.

The collaboration during WSINT between ARSOA crews, the 14th Weapons Squadron, USAF Weapons School, and joint partners at large has resulted in an assessed increased level of readiness for the planning and execution of operations in denied areas. A2AD threats present a unique challenge for our military and addressing these threats with both technology and training is essential. Leveraging expertise and initiatives present within the entire defense apparatus is imperative if we wish to maintain our competitive advantage. Finally, we cannot prepare to fight the last war, however, we must maintain a high-level readiness for our current conflicts. Therefore, we must develop training that allows our aircrews to refine the skills they need to maintain readiness for the fights we face today, while also addressing future A2AD threats.

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Analog Processes in a Digital Army: Human Expertise Supporting Digital Complexity

By CW3 Bruce Silva and SSG Kyle Gardner



Above: CH-47D Cockpit Right: CH-47F Cockpit



n today's world of sophisticated aircraft avionics systems, using a simple multi-meter with steam-gauge era schematics will not provide the level of fidelity needed to troubleshoot complicated systems and identify intermittent faults. Today's technicians equipment require testing as sophisticated as the systems being tested and the technical data that is needed to train Soldiers to levels beyond "box swapping." Aircraft mission equipment continues to develop at a rapid pace, bringing high-tech capabilities to Army aviators supporting demanding ground force commanders. As these aircraft systems evolve and become artificially intelligent enough to "tell" the technicians when they fail, our efforts to work smarter generally result in cheating the technician of the intricacies and technical nuances required to understand the basic principles of electronics. We think we are working smarter, but in actuality we are potentially driving unrealistic costs into our fiscally constrained flying hour budgets. Many times paying

the original equipment manufacturer (OEM) to repair components that could have easily been identified and repaired by our Soldiers; this robs maintainers of the critical experience needed to effectively operate away from home station. Skill is built from repetitions at task; by giving these repetitions away, we are giving away valuable opportunities to learn and grow into master technicians.

Advanced Equipment

troubleshooting Aircraft has rapidly declined with reliance on "smart" systems. The question of "why" the component failed has almost been completely removed from the vocabulary of the current generation built on principles of 2 level maintenance and lack of technical data. Asking "why" is the first step toward becoming a technician and not a "box swapper." Currently, our technical manuals are written to address problems in a step-by-step process with little to no understanding of the logical steps of the process. When there is a problem, the maintainers are left relying on a system that tells them what Line Replaceable Unit (LRU) to remove without considering other issues that could be systemic or problematic, including things such as wiring faults or faults induced by nonrelated systems. As an Army enterprise we are losing the understanding of avionics systems; this understanding is vital to our technicians' professional development.

Building systems that self-report failures is perceived to be forward thinking, but this form of condition-based maintenance often leads to incorrect fault detection at the LRU level and results in "box swapping." The LRUs identified as faulty are being sent back to the vendors for testing and are then returned to the government as Could Not Duplicate (CND) or No Evidence of Fault Found (NEOFF). These CNDs or NEOFFs are a direct result of the lack of maintainer technical expertise. This "box swapping" method of troubleshooting is costly and has a significant impact on readiness and logistical footprint.

New and advanced forms of data wiring including the 1553 Data Bus, microwave, fiber optic, and other complex wiring systems, bring their own challenges that the maintainer may not understand. For example, wiring can initially seem to be operational when tested using available means such as a multi-meter, but are often times degraded and not readily apparent to the maintainer. These systems require specialized tools and training in order to effectively test, diagnose, and repair them. Acquiring these special tools is often expensive and comes with its own set of challenges, such as increasing your operational footprint, developing a sustainment plan, training to operate the equipment, and an increase in maintenance man-hours performed on a given task. These challenges are often what drives the desire for systems that self-diagnose.

Systems that have self-reporting functions are not bad, in fact, they have proven to help in most cases. However, we often depend too much on this mechanism in an effort to get the aircraft back into the fight without having a holistic picture of what the root cause was. These faults are sometimes rectified, but typically re-manifest due to an underlying issue that self-reporting systems lack the capability to identify.

Getting the new capability to the warfighter is the top priority, but we leave our maintainers struggling to sustain technical relevance on constantly evolving systems. Formal maintenance training and programs of instruction take significant time to develop and implement and are often executed a year or more after the system is already in the field. Having the most advanced systems will not provide any benefit if the people that maintain them do not have that same level of technical expertise, the required equipment, and the source data to keep it operational.

Limited Technology Data Packages

Technical capability of our maintainers often must rely on the OEM and field service representatives (FSR) for support. Many new systems being fielded have propriety technology, and cost restrictions limit our program managers from buying enough technical data packages to adequately generate troubleshooting manuals. Because of this, we have little to no ability to test

the LRU beyond what the system tells us. Army Special Operations Aviation Command and Army Aviation can overcome some of these issues by including the need for technical data rights on systems procured or developed for use on our aircraft. These rights allow us to better troubleshoot on wing, correctly identify faults the first time, and develop test equipment to reduce occurrences of CNDs. The lack of technical data rights drives up sustainment costs, logistics footprints, and degrades Soldier skill sets. The Special Operations Aviation Regiment has proven that this initial upfront cost does provide a positive return on investment while reducing aircraft downtime. With the use of approved system mockups, the ability to crack open an LRU and repair and test to manufacturer's standards, significantly reduces the overall cost of repair, while increasing the amount of serviceable assets available to the fleet. The FSR does play a useful role when it comes to new systems, but longterm dependence due to proprietary rights takes away from the Soldier's ability to acquire in-depth knowledge of the system.

Precision Maintenance with Blunt Resourcing

The overarching issue is that maintainers need detailed manuals and technical training as advanced as the mission equipment they are supporting. As an enterprise, we need to empower our maintainers and arm them with the best equipment and technical expertise possible. This small investment in "human" capital provides a huge return on investment in our "readiness" capital and is in keeping with our SOF Truth "Humans are more important than Hardware." The bottom line is that a multi-meter and a continuity check with steam-gauge era schematics does not cut it in today's world of sophisticated avionics aircraft systems.

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Special Focus > Army Special Operations Aviation

Owning the Environment – DVEPS

By CW4 Michael Pounds and MAJ Jeff Timmons

hrough the last 30 years, the United States military has dominated combat operations in low-light visibility conditions with its superior use of night vision devices (NVDs). However, recent years have shown that not only do America's peer and near-peer adversaries possess similar capabilities, but anyone from organized crime and terror networks to lone-wolf hostiles can affordably purchase their own NVGs1. Ever seeking complete capability overmatch, United States Army Special Operations Aviation (ARŠOA) is taking the steps to expand from not only "owning the night," but also to dominating operations in the degraded visual environment (DVE). We want to give our customers aircraft that can takeoff, negotiate obstacles enroute, and deliver combat operators to the "X" in fog, blowing sand, and snow. ARSOA's DVE Pilotage System (DVEPS) is breaking new ground in development and integration to meet

our customers' needs.

ARSOA is solving the DVE problem based on three attributes: cueing, imagery, and flight controls. Cueing provides the aircrew with color contrasted symbology that directs flight control inputs to stay on course, avoid obstacles, or maintain position. To date, this has proven the least developmentally challenging attribute; however, it is rendered ineffective if the state data driving the cueing is less than accurate. To overcome those inaccuracies, imagery is generated with a priori data, e.g., digital terrain elevation data (DTED), and/or learned through in-flight sensor gathering. Multiple sensors add weight while data fusion creates software complexity making imagery the next most challenging attribute. Finally, the perfect DVE solution includes an autopilot driven sophisticated flight control system capable of interpreting fused data and associated cueing. The autopilot drives the controls as directed by cueing, flying the aircraft through DVE, accomplishing the mission. In seeking a true DVE pilotage solution, autonomous flight control is the most complex endeavor.

Safety Standards

Such a system requires significant safety standards be met. Testing is rigorous and only grows more restrictive over time as we learn more about the risks versus capacity of the system. If DVEPS is to achieve a full pilotage, "heads-up, eyes-out" solution, an incremental approach is necessary. The first increment in this process is to achieve a fielded situational awareness (SA) enhancing solution, specifically, to aid aircrews during terminal brownout landing conditions.

Through the early part of the wars in Afghanistan and Iraq, brownouts at takeoff or landing proved to be the cause for nearly 75% of accidents². Yet, this is not a 21st Century problem. Studies conducted between 1984 and 1996 showed that over 70% of all NVD related accidents



An MH-60M Black Hawk helicopter crew from the 160th Special Operations Aviation Regiment conducts a dust landing during a desert training exercise. Aviators with the 160th SOAR regularly conduct operations in low visibility situations and austere weather conditions.

occurred due to the pilot's inability to perceive visually the flight environment³. These data points inspired DVEPS' initial step of pilot SA prior to tackling full pilotage. While not all controlled flight into terrain (CFIT) incidents are catastrophic, they can be costly by damaging aircraft landing gear and other airframe components. Many factors contribute to CFIT including unexpected brownout, unrecognized sloping terrain, and aircraft failing to land at assigned location. In nearly every incident, the pilot realizes something is wrong, creates an unusual attitude through overcorrection, and then mishandles the aircraft terminally. Worse yet, when the pilot fails to notice the issue and simply lands badly with an unrecognized drift. Other factors may include unseen obstacles such as towers or wires that are obscured in the brownout. Without knowing or having a system aiding the final seconds of a landing, even a highly proficient crew can find itself disoriented.

System Equipment

DVEPS integrates multiple pieces of mission equipment in order to allow aircrews to maintain situational awareness despite the loss of visual cues. DVEPS uses Long Wave IR, Light Detection and Ranging (LIDAR), Synthetic Vision Avionics Backbone (SVAB), a priori data (DTED), and in-flight remembered DTED updates. It's the blend and fusion of all these data that creates the magic and displays the synthetic imagery to the aircrews on multi-functional display paneling or future head mounted systems. This is a "see and remember system" that views the landing zone (LZ)and creates a sensor fused high resolution image. The LIDAR 3D point cloud is fused onto *a priori* data. This image is used as a secondary aid with hover symbology. The aircrew receives hover and approach cues while the image behind the cues gives the aircrew confidence that landing to the LZ is safe and suitable. Therefore, DVEPS will mitigate risk to the aircrew and customers when operating in more austere and visually limited environments, specifically those leading to brownout conditions.

DVEPS also has the ability to use high resolution remembered data that can be loaded pre-mission. This results in a completely passive capability that uses high resolution data complete with updated towers, wires, and other obstacles. The system already knows the ground plane through DTED. Any variation from DTED with the remembered data fused (the towers, wires, etc. mentioned previously) would be declared as obstacles by both audio and color cues. Think of a radar altitude turned ninety degrees in front of you. Setting the obstacle alert audio is based on time to criticality. This is similar to how low altitude audio is set by radar altitude based on set parameters.

As DVEPS flies and gains a level of pedigree through operational effectiveness, this will inform what is necessary to get to a qualified pilotage system. As mentioned before, the path is not paved in gold. It is wrought with challenges that require sophisticated and rigorous testing. Great strides over a decade in development and cue tuning have brought us to current developmental flight tests. These tests are cracking the code that creates predictable and repeatable combat approaches in DVE conditions. As ARSOA moves forward, future considerations include introduction of "heads-up, eyes-out" helmet mounted displays and the fusion of radar capability into DVEPS cueing and imagery before completing the steps necessary for autonomous flight control integration.

Clearly, just as the rain falls on the just and unjust alike, so does the degraded visual environment interrupt the time sensitive missions of special operations forces as well as conventional. Efforts in recent years have sought to mitigate the risks of flying in DVE. The goal of ARSOA includes mitigation but extends to exploitation. We want to not only control the fight in darkness as we have done expertly for so many years, but now we must also own the environment to end our enemies' sanctuary and give them no quarter.

Notes:

¹https://www.amazon.com/Night-Optics-USA-PVS-7-3AG-Generation/dp/ B0086Y03S6/ref=sr_1_13?crid=1KPC9WL VQ4NOU&keywords=night+vision+goggle s+military&qid=1552078418&s=gateway& sprefix=night+vision+goo%2Caps%2C320& sr=8-13

² Johnson, Chris W., Ph.D. (2007). Interactions Between Night Vision and Brownout Accidents: The Loss of a UK RAF Puma Helicopter on Operational Duty in Iraq. Department of Computing Science, University of Glasgow, Scotland. Retrieved from https://pdfs.semanticscholar.org/ab49/4b4e6a9971568025 d0eb5dcc47363464d19d.pdf.

³ Bachelder, Edward N. (2000). Perception-Based Synthetic Cueing for Night-Vision Device Rotorcraft Hover Operations (Doctoral dissertation). Department of Aeronautics and Astronautics, Massachusetts Institute of Technology. Retrieved from https://www.researchgate.net/publication/328736870

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Special Focus > Arming the Force

PM JAMS Update – Special Operations Support

By Mr. Todd L. Gangl



JAGM Engagement Before and After – Successful engagement of a Ford Raptor traveling at 77 mph and still accelerating. Test executed to stress the dual mode seeker performance and validate the pilot vehicle interface on the Apache.

The Program Management Office Joint Attack Munitions (PM JAMS) is the home of the combat proven HELLFIRE missile, the Joint Air-to-Ground Missile (JAGM), which successfully entered their production and deployment (P&D) phase in 2018, the Aviation Precision Kill Weapon System (APKWS) and the Hydra-70mm family of rockets as well as their associated launchers, including the M299 HELLFIRE missile launcher. As the program office for these air-to-ground missile systems and launchers, PM JAMS enjoys a dynamic, on-going relationship with the United States Special Operations Command (SOCOM), equipping their aviation assets with highly reliable missile and launcher systems and providing engineering expertise in the area of platform integration.

This vital mission of supplying and supporting these key systems also extends beyond the SOCOM community, into the Army family. Over the course of the past year, PM JAMS has worked hand-in-hand within the SOCOM community specifically the 160th Special Operations Aviation Regiment (Airborne)(SOAR(A)) on many of their aviation platforms to include the Gray Eagle Unmanned Aircraft System (UAS), the MH-60M Defensive Armed Penetrator (DAP), and the AH-6M Mission Enhanced Little Bird (MELB). Each of these efforts enhanced the current capabilities of these platforms in relation to operational effectiveness against targets as well as overall platform endurance. At the same time, PM JAMS delivered greater munitions capabilities to the Army community through enhancements to the precision guided munitions Aviation Precision Kill Weapons System (APKWS), increasing its lethality against a greater range of hardened armor targets.

HELLFIRE

Over the course of the past year, the HELLFIRE Product Office worked to bring full Romeo missile capabilities to the 160th SOAR AH-6M MELB and greater munitions and endurance capability to the Gray Eagle UAS. These full Romeo capabilities include both increased target selection and weapons system engagement zones through the inclusion of a multi-purpose warhead and enhancements to the missile Inertial Measurement Unit (IMU). Giving full Romeo capabilities to the MELB platform includes ensuring all possible missile warhead suite and delay combinations are now available maximizing possible engagement opportunities. As part of this effort, PM JAMS HELLFIRE product office will complete new platform and launcher software testing to allow both Romeo and R2 missile systems to be fired from the AH-6M platform. This enhanced capability will be verified and validated over the summer with live missile shots from the MELB platform.

In addition to extending the capabilities of the MELB platform, the HELLFIRE product office has also worked to increase endurance time and munitions loads on the 160th SOAR Gray Eagle UAS. This work has included validating interfaces between the platform and a new launcher, captive carry flights, and live missile shots to validate the platform improvements with the HELLFIRE Romeo missile system.

JAGM

The Joint Air-to-Ground Missile (JAGM) continues to integrate its capability onto objective platforms as it nears full rate production in mid-2020. JAGM currently fires from its threshold platforms, the AH-64E Apache and AH-1Z Viper, along with several other manned and unmanned platforms. The 160th SOAR MH-60M DAP platform, which can currently engage targets with the HELLFIRE missile, plans to test full JAGM interoperability with test shots in early 2020. JAGM integration will give special operators an improved precision point and fire-and-forget capability on a single munition that can destroy heavily armored, fast moving and stationary targets within a countermeasure rich or adverse weather environment.



Hydra-70 M274 Smoke Signature-Practice Rocket being fired from M260 Rocket Launcher at Rocket Alley firing position at Yuma Test Center, AZ.

The MH-60M DAP fired the JAGM in August 2018. Engagements included stationary and moving targets that provided confidence in the ability to fire JAGM in multiple modes. This early demonstration provided data to continue the integration process to bring JAGM capability to MH-60M DAP's worldwide mission. The JAGM program is currently procuring low-rate initial production missiles with joint interest from the U.S. Navy, Marine Corps, and Air Force.

ARSGM

The Aviation Rockets and Small Guided Munitions (ARSGM) product office successfully completed two flight testing events in 2018 of the APKWS guided rocket with an M282 High Explosive Incendiary Penetrating warhead. This new guidance section and warhead combination will allow for precision targeting of more heavily armored target sets, expanding the capability of ARSGM's weapons portfolio for all Army platforms. The first functional and performance flight testing of the M282-APKWS guided rocket was conducted successfully last August at the Yuma Test Center utilizing an AH-64D Apache helicopter. This Apache fired 16, M282-APKWS guided rockets at plywood, bunker, stationary up-armored, and moving up-armored targets from 16 different test points.

The second testing event was conducted successfully at Eglin Air Force Base in December utilizing an AH-64E Apache helicopter piloted by two Redstone Test Center (RTC) experimental test pilots. This Apache fired eight M282-APKWS guided rockets with M282 telemetry warheads at stationary plywood targets from eight different test points achieving all test objectives. The testing efforts will support a 3QFY19 Airworthiness Release, the subsequent issuance of an Urgent Material Release, and assist in further refining the integrated flight simulation for the M282-APKWS guided rocket.

LT/S

The Launcher and Test Sets L/TS product office serves as the executive procurement agent for the M299 HELLFIRE missile launcher for the Army, sister services and coalition partners. The M299 HELLFIRE Missile Launcher (HML) is a stalwart for Army Aviation the past 19 years. The reputation of the system is proven through countless flight hours, missile shots and its demand across 29 different platforms - both Aviation and Ground. It's a versatile system. A key challenge of providing full up HELLFIRE and JAGM capability to the



HELLFIRE Longbow Littoral Combat Ship Qualification Engagement

platforms often requires significant modifications to the fourrail variant of the launcher. Even today, there are emerging integration requirements for modified M299s in support of strategic initiatives. This presents a myriad of challenges across the programmatic spectrum. Each platform that requires modified M299's is unique. Such challenges include but are not limited to unique designs and software, logistics support and protracted production requirements.

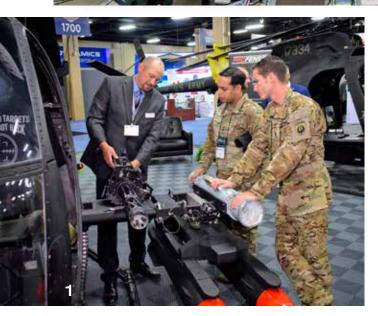
Moving forward, L/TS is charged to lead the "Tiger Team" that will develop the munitions/ALE launcher for FARA-CP- currently named the Integrated Munitions Launcher (IML). The intent is to leverage the lessons learned from the M299 history. The IML will be a modular open systems architecture solution that will facilitate rapid munitions and ALE integration. IML key attributes include standardized functional, mechanical and electrical solutions. These solutions will be the baseline for weaponized future aviation platforms.

The close cooperation between PM JAMS and the Special Operations community was recently highlighted with the David Packard Excellence in Acquisition Award being presented to the Stand-Off Precision Guided Munition (SOPGM) team. This award was presented in part for the rapid delivery of a HELLFIRE missile platform for use against high-value targets and capable of nearly zero collateral damage, a capability which was not resident in any service's inventory.

Mr. Todd L. Gangl is the Hellfire Program Integrator for the Joint Attack Munition Systems Project Management Office located at Redstone Arsenal, AL.



2019 Highlights AAAA Army Aviation Mission Solutions Summit Nashville, Tennessee





















01 – More than 340 companies and organizations filled the exhibit hall's 280,000+ square feet to display their products/services. 02 – Over 7,200 participants took the opportunity to renew old acquaintances and make new ones during the two days of professional sessions and social events.

03 – FORSCOM Deputy Commanding General and Chief of Staff, LTG Laura Richardson (center), officially opens the Exhibit Hall with the assistance of (I to r) MG (Ret.) Tim Crosby, AAAA Secretary; MG (Ret.) Jeffrey Schloesser, AAAA Senior Vice President; Mr. Bill Harris, AAAA Executive Director; BG(P) Dave Francis, HQDA Director of Aviation and incoming Aviation Branch Chief; AAAA President, BG (Ret.) Steve Mundt; Richardson; MG William Gayler, Aviation Branch Chief and U.S. Army Aviation Center of Excellence commanding general; CSM Brian Hauke, USAACE command sergeant major; CW5 Joseph Roland, Chief Warrant Officer of the Aviation Branch; LTC (Ret.) Jan Drabczuk, AAAA VP Chapters; and MG (Ret.) Walter Davis, AAAA Treasurer 04 – AAAA National President and Senior VP, BG (Ret.) Mundt & MG (Ret.) Schloesser, address members of the NATO Helicopter Inter-Service Working Group (HISWG) which annually conducts one of their sessions in conjunction with the Summit.

05 – Outgoing Scholarship Foundation President, BG (Ret.) Tom Konitzer (left), receives a memento from newly elected SFI President, COL (Ret.) Lou Bonham.

06 – Members of one of the newest chapters, the Johnny O Cluster Chapter, Nashville, TN, pose for photo during the Summit. 07 – COL (Ret.) Sid Achee, one of 9 remaining members of the "Originals", a.k.a. "The Cub Club," continues their tradition of collecting donations in their hats at the Scholarship Luncheon door.

08 – LTC (Ret.) Jan Drabczuk (standing), AAAA VP Chapters, guides discussions on chapter operations with attendees at the chapter workshops.

09 – Donors to the U.S. Army Museum Foundation pose with Foundation Vice President, and Ozark Mayor, Bob Bunting (third from right), at the Scholarship and Museum Foundations donor luncheon at the Summit.

10 – AAAA Scholarship Foundation President, COL (Ret.) Lou Bonam (left, kneeling) poses with Foundation donors following the luncheon at the Summit.





























11 – It was standing room only for the opening of the 2019 AAAA Army Aviation Mission Solutions Summit at the Opryland Hotel, Nashville, TN, April 15.

12 – AAAA President, BG (Ret.) Steve Mundt talks with LTG Neil Thurgood (right), Director for Hypersonics, Directed Energy, Space and Rapid Acquisition, Office of the Assistant Secretary of the Army (Acquisition, Logistics and Technology); and MG Troy Kok, commanding general of the U.S. Army Reserve Accessions Task Force. 13 – The 101st Combat Aviation Brigade honor guard presents the colors at the Summit opening ceremony.

14 – AAAA National President, BG (Ret.) Steve Mundt, opens the 2019 Summit. 15 – AAAA Executive Director, Bill Harris, introduces the AAAA National President. 16 – MG Brian Winski, commanding general of the 101st Airborne Division (Air Assault) welcomes Summit attendees to Nashville, TN. 17 –_LTG Laura Richardson delivers the Summit keynote address.

18 – Jeff White, the Principal Deputy Assistant Secretary of the Army for Acquisition, Logistics and Technology, and retired Army Aviator, provided an acquisition update at the opening session. 19 – MG William K. Gayler, Aviation Branch Chief and Commanding General, U.S. Army Aviation Center of Excellence and Ft. Rucker, gave his final branch update before changing command. At the conclusion, he was inducted into the Gold Honorable Order of St. Michael by BG (Ret.) Steve Mundt with wife, Michelle, by his side. 20 – LTG Ted Martin, Training and Doctrine Command Deputy Commanding General, speaks to opening session attendees. 21 – The AAAA Outstanding Army Aviation Unit of the Year is 449th Theater Aviation Brigade; pictured (I to r) LTC Mark Pickett; CSM Matthew Shorter, senior NCO; commander, COL Joseph W. Bishop; command chief warrant officer, CW5 Carnadose Bauknight; and LTC Charles Lampe. 22 – John F. "Rick" Lunnemann celebrates the Joseph P. Cribbins Department of the Army Civilian of the Year award for CY 2018 with wife, Becky.

23 – CW3 Nickolas F. Sciacca, is congratulated on receiving the AAAA James H. McClellan Aviation Safety Award by (I to r) BG Timothy Daugherty, LTG Richardson, and BG (Ret.) Mundt. 24 – The AAAA Henry Q. Dunn Crew Chief of the Year, SGT Jack A. Brook, shows off his award with (I to r) wife, Jennifer; brother, Roy; mother and father, Wanda and Robert.

















25 – SFC Jesse R. Jernigan celebrates his AAAA Rodney J.T. Yano Noncommissioned Officer of the Year award with some of the members of his unit, A/1-101st Avn., Task Force Shadow.

26 – The AAAA Army Aviation Soldier of the Year, SGT Bradley C. Galloway, displays his award together with his wife, Kathleen, and 5-week old daughter, Isabella.

27 – The AAAA Active Army Aviation Unit of the Year is 2nd Battalion, 160th Special Operations Aviation Regiment (Airborne) – commander, LTC Michael Athanasakis (left); Senior Warrant Officer, CW5 Benjamin Arps (center); and senior NCO, CSM Paul Hutchings.

28 – The AAAA John J. Stanko Army National Guard Aviation Unit of the Year 1st Battalion, 151st Aviation Regiment commander, LTC Brian Pipkin (right holding trophy), and senior NCO, CSM Charles Hancock Jr. (left of trophy) accept the award on behalf of unit Soldiers and are congratulated by (I to r) CSM Hauke, CW5 Roland, MG Gayler, BG J. Ray Davis, LTG Laura Richardson and BG (Ret.) Mundt.

29 – The AAAA Michael J. Novosel Aviator of the Year Award winner, CW3 Patrick W. Fleming, celebrates his award by taking a selfie with the trophy and his wife, Isabelle.

30 – The UH-60V Product Office is the winner of the AAAA Robert M. Leich Award; Product Manager, LTC Andrew Duus, accepts the trophy on behalf of the office with the congratulations of (I to r) CSM Hauke, CW5 Roland, MG Gayler, LTG Laura Richardson, and BG (Ret.) Mundt. 31– The AAAA U.S. Army Reserve Aviation Unit of the Year 5th Battalion, 159th Aviation Regiment commander, LTC Matthew Hill (right), and senior NCO, CSM Charles A. Booth, receive their award for the second consecutive year on behalf of the unit and were



congratulated by BG Jamie Shawley (left of Booth), commanding general of the U.S. Army Reserve Aviation Command and USARC CSM Judd Mooso. 32 – Mr. John Shipley was presented the AAAA President's Award for a lifetime of dedicated service to Army Aviation before the Summit because he was unable to travel to Nashville. A short video of the presentation was shown following the National Award presentations.

33 – The Army Vice Chief of Staff, GEN James C. McConville, a Master Army Aviator, awarded the Silver Star to two Soldiers from the 6th Battalion, 101st Combat Aviation Brigade; SGT Armando Yanez and SGT Emmanuel Bynum.

















ARMY AVIATION Magazine







34 – Working groups such as the Aviation Warrant Officer Readiness Review provided diversified information from across the Aviation Enterprise.

35 – Soldiers were able to view the future development in Army Aviation at the various exhibitor displays.

36 – The International Aviation Leaders panel – (I to r) MG (Ret.) Jeff Schloesser, moderator; BG Mac McCurry, 2ID (ROK); BG John Novalis, DCS-Ops, Multinational Corps NE, NATO; AirCdre. Alastair Smith, British Army; BG Jean-Yves Bouillaud, French Army; and Brig. John Fenwick, Australian Army.

37 – MG (Ret.) Tim Crosby, AAAA National Secretary, moderates an industry leaders forum in the Aviation Warfighter Theater.

38 – The Veterans' History Project of the Library of Congress conducted interviews each day.

39 – The Soldier Café provided a venue for Active, ARNG, and USAR Soldiers and family members to relax and obtain refreshments and affordable meals.

40 – MG (Ret.) Walt Davis, left, AAAA Treasurer, moderates leadership discussions such as the Requirements Development and Determination with Army Futures Command and TRADOC key leaders.

41 – MG (Ret.) Lester D. Eisner, left, AAAA VP Guard/Reserve Rel., moderates the Aviation Accessions Panel; with MG Frank Muth, CG USAREC; MG Troy Kok, CG



USAR Accessions Task Force; and MG John Evans, CG, Cadet Cmd. 42 – COL (Ret.) Jeffrey N. Williams stands next to his portrait with his wife, Anne-Marie, and grandson, Braeden Williams following his induction into the Army Aviation Hall of Fame.

43 – CW4 (Ret.) Robert J. Monette is congratulated by MG William Gayler, Aviation Branch Chief, upon his induction into the Army Aviation Hall of Fame.

44 – The Army Aviation Hall of Fame Induction Banquet was held April 16th, during the Summit.

45 – LTG (Ret.) Kevin Mangum stands next to his portrait with his escort, CSM (Ret.) Buford Thomas following his induction into the Army Aviation Hall of Fame.















ARMY AVIATION Magazine









46 – Attendees entering the Exhibit Hall.

47 – BG(P) Thomas H. Todd III, the Army Program Executive Officer, Aviation, updates attendees on the Aviation portfolio during the Friday morning professional session.

48 – Army Vice Chief of Staff, GEN James C. McConville, in the new Army Green uniform, delivers the second day's keynote address in the Aviation Warfighter Theater.

49 – Director of Army Safety and commanding general of the U.S. Army Combat Readiness Center, BG Timothy Daugherty, discusses trends and programs in the world of Aviation safety.

50 – BG(P) Dave Francis, HQDA director of Army Aviation and incoming Aviation Branch Chief gives an update on Tuesday afternoon.

51 – MG William Gayler, Army Aviation Branch Chief, seated next to former Army Vice Chief of Staff GEN Dick Cody, asks a question during a leadership briefing.

52 – MG Erik Peterson (center), CG, First Army Div. West, moderates a Total

Team Army Aviation discussion with (I to r) COL Joe Bishop, ARNG Avn. & Safety; BG J.Ray Davis, Asst. Dir. ARNG; Peterson; BG Jami Shawley, CG, USAR Avn. Cmd.; and COL Ron Ells, Cdr. 166th Avn. Bde.

53 – Professional sessions on Tuesday were conducted in the new, 800seat Aviation Warfighter Theater located in the Exhibit Hall.

54 – Attendees in the exhibit hall on Tuesday.

55 – LTG James Richardson, deputy commanding general of the new Army Futures Command headquartered in Austin, TX, provides an update on AFC's mission and organization.

56 – BG Jamie Shawley (2nd from left) reacts to a comment by MG Frank Muth during a question and answer session in the Aviation Warfighter Theater.

57 –Gaylord Executive Chef Matt Foreman and staff provided a tour for spouses of how the facility prepares various cuisine for events. 58 –CW5 Doug Englen with the Chief of Staff Army Talent Management Team fields questions.











59 – Country music's Lee Brice headlined the entertainment at the Soldier Appreciation Concert on Tuesday night.

60 – Janis Arena with the National AAAA Office received the AAAA Founders Award from AAAA President BG (Ret.) Steve Mundt and Executive Director Bill Harris, for her longstanding support of AAAA, and especially her personal efforts toward awardees and their families.

61 – Top chapters for 2018 were recognized at the annual meeting portion of the dinner/concert. Pictured from left with AAAA President, BG (Ret.) Steve Mundt (3rd from right) are: (I to r) CW5 (Ret.) Bob Huffman (Air Assault Chapter/Super/3rd consecutive win); COL (Ret.) Kevin Vizzarri (Central Florida Chapter/Master); COL David Hall (Grizzly Chapter/AAAA); and COL (Ret.) Dave Brostrom (Aloha Chapter/Senior). 62 – Phil Harpel receives the Outstanding Soldier & Family Support Award on behalf of himself and his twin brother, Bill, from AAAA National President BG (Ret.) Steve Mundt for their long-standing support of Army Aviation Soldiers and Families at Fort Campbell, KY.

63 – AAAA Executive Director Bill Harris, presents outgoing president, BG (Ret.) Steve Mundt, with his own personalized Boston Red Sox shirt. 64 – MG (Ret.) Jeff Schloesser accepts the gavel from outgoing AAAA President, BG (Ret.) Steve Mundt during the Annual Meeting on April 16, 2019, at the Opryland Hotel, Nashville, TN.

65 – Former Black Hawk pilot and country music entertainer, Ryan Weaver, performs as the opening act for the Soldier Appreciation Concert.

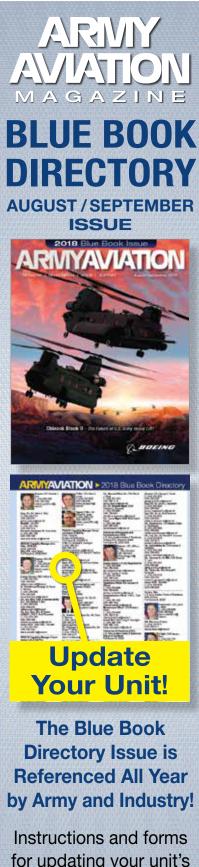
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15th Luther G. Jones Army Aviation Depot Forum





for updating your unit's information will be available on <mark>1 July.</mark>

From the Field >

FORSCOM Aviation: Supporting the Aviation Warfighter

By LTC Michael Charnley



U.S. Army Forces Command Headquarters, Fort Bragg, NC.

U ndoubtedly, a majority of you who read *Army Aviation* are familiar with Forces Command (FORSCOM), most likely through the recurring visits of FORSCOM's Aviation Resource Management Team (ARMS) to your units over the years. However, most of you may not realize the extent to which FORSCOM represents our Aviation branch at the Joint Staff, Department of the Army, major army command, and echelons throughout the Army and Aviation Enterprise.

Due to its unique characteristics, both complex and expensive, all Aviation equities in the headquarters are addressed by a former combat aviation brigade commander (CAB) within the FORSCOM headquarters. The G37 Aviation Directorate represents the interests of the operational Aviation force to the Department of the Army Staff (DAMO-AV), the National Guard Bureau (NGB), the United States Army Reserve Command (USARC), and the United States Army Aviation Center of Excellence (USAACE). The Aviation Director oversees the ARMS Branch, a Programs Branch, and an Operations Branch. These branches work in unison to effectively manage the operational demands combatant commanders have for conventional Aviation capabilities.

As the Army's conventional Force Provider, FORSCOM synchronizes high Aviation unit demands, having supported prolonged combat operations in multiple theaters, for almost two decades. We also provide Aviation support for Defense Support to Civilian Agencies (DCSA) in CONUS. The current operational tempo for our rotary wing units and unmanned aircraft systems, particularly in CH-47, AH-64, MEDEVAC, and MQ-1C Gray Eagle units, cannot adequately meet combatant command (CCMD) demands. To mitigate the potential impacts of these shortfalls, the production of sound staff work and expert advice on the employment of our formations remains critical.

The Mission

Our primary mission in FORSCOM Aviation is to provide the commanding general with sound expertise and staff work on all aspects of Army Aviation, as it pertains to wartime readiness. Most noticeably we do this through our ARMS visits; however, the bulk of our work lies in staff officer analysis in the G3 and G4, as well as in program management. Our staff work typically consists of research, analysis and foundational work providing recommendations for our Army's senior leaders. This enables them to make doctrinally sound, informed decisions with operational and strategic-level impacts. These decisions often guide, shape, and posture our Aviation force for the current generation and beyond. Due to the high-level decisions on subjects we have equities in, we always look for sound, critical thinkers to serve on the staff. Individuals with the ability and the fortitude to work above the tactical level, who possess the desire to have a voice in the employment and shaping of the Aviation enterprise, are always welcome.

The composition of the staff highlights one unique aspect of FORSCOM Aviation. Naturally, at a higher-level headquarters you will tend to find more senior individuals (officer, warrant officer and enlisted), along with civilians and contractors critical to our operations. The significant number of COMPO 2/3 Soldiers on staff here is also unique to FORSCOM. They are crucial to providing the command with the holistic staff work required above the tactical level. They are also vital to effectively resolving any issues or questions that arise when attending the numerous and almost-daily working groups and operational planning teams (OPT). We do not directly resolve problems, but rather provide the expertise to bring together the various staffs, both internal and external, to address any issues that arise. During a typical week, our staff engages in force structure planning, decisions concerning operational deployment of the force, combat training center (CTC) rotational

News Spotlight >

Despite Age and Rank, Three 166th Aviation Brigade Warrant Officers Graduate Air Assault School

By SSG(P) Monica F. Mims

Age is just a number! That's the indirect message CW4 Jerry Spears (38), CW4 Ryan Mahany (39) and CW4 Steve Frazee (36), gave by completing three weeks of rigorous air assault training.

The course consists of three phases -- air assault, slingload and rappel. In the first phase, students learn air assault and pathfinder operations as well as aircraft familiarization and safety considerations. The second phase, slingload phase, requires students to prepare loads for aerial delivery using slings and cargo bags. This phase is considered mentally demanding, as everything must be committed to



Left to right: CW4 Frazee, CW4 Spears and CW4 Mahary

memory, such as the tensile strength of equipment used in slingload operations, lift capabilities of supporting aircraft, and rigging and inspecting prepared loads. The third phase includes applying basic rappelling knowledge to drop from a 50-foot rappel tower and later an Army helicopter hovering 80 feet above ground. "I definitely recommend training hard beforehand," Spears said.

Although not considered a phase, graduation day provides perhaps the most intimidating challenge to the prospective Air Assault Soldiers, the silent beast, the 12-mile road march.

Training hard for several months before the course, these three CW4s set the standard for all members of the brigade. It was a major accomplishment for not only the Soldiers and their families, but for 166th Aviation Brigade as well.

"Show me another Aviation brigade whose Master Gunner, SIP, and Safety Officer all successfully completed Air Assault School as CW4s, and I will show you a commander as proud as I am," said COL Ron Ells, 166th Aviation Brigade Commander. "I'm proud of all three of you for tackling this grueling course and am honored to be able to call myself your commander. Air Assault! Archangels! Army Strong!"

SSG(P) Monica F. Mims is the public affairs NCOIC for the 166th Aviation Brigade at Fort Hood, TX.

planning, personnel recovery (PR) issues, Reserve Component mobilizations, and modernization initiatives. Our directorate provides the subject matter expertise that allows our leadership to effectively engage senior leaders on decisions important to the Aviation operational force.

MAAR

With the significant majority of our Aviation force committed to the ongoing theater requirements mentioned earlier, restrictions on dwell-time and ever-increasing home station tasks, we must remain efficient and engage non-Aviation leadership to meet our readiness objectives. One method of engagement to achieve this is the Monthly Aviation Readiness Review (MAAR), chaired by the FORSCOM Deputy Commanding General. This was instituted to effectively involve senior leadership at the Corps and Division levels. Each month, senior leadership of corps, divisions, DRUs, and CTCs participate in the MARR in order to update FORSCOM senior leadership on Aviation readiness. This enables focused discussion among non-Aviation commanders and staffs concerning issues and challenges facing CABs, CTC Aviation elements, and brigade combat teams' (BCT) Unmanned Aircraft Systems (UAS) platoons. The goal: continually identify where FORSCOM and members of the Aviation Enterprise can assist in helping subordinate commands build and maintain Aviation readiness.

With generating ready forces at the forefront of all we do, FORSCOM Aviation applies the harsh wire-brush of reality to the emerging "good" ideas coming from in and around the Aviation Enterprise. We maintain the obligation of providing the Combatant Commanders with a trained, relevant, and ready force. For this reason, FORSCOM Aviation always fights to preserve the readiness of our Aviation brigades, so that when our units are allocated to an operation, the combatant commander has confidence in our Aviation formations to fight, and win, on the battlefield.

LTC Michael Charnley recently served as the Operations Branch Deputy in the G37 Aviation Directorate in FORSCOM at Fort Bragg, North Carolina.

Historical Perspective >

Call for Assistance

By Mark Albertson

We need the assistance of those in the Army Aviation family ... the stories and experiences of those who have served and those who still do ... from the end of the Korean War to the present.



Jean Marie Coutelle, led the French Company of Aeronauts during the French Revolutionary Wars.



William Wallace Ford, first Director of Air Training for the Army Ground Forces' Air Observation Post.

Whether a pilot, mechanic or infantryman, officer or enlisted, man or woman is irrelevant; we want whatever you are willing to share and provide.

I am creating Volume 2, *Sky Soldiers: The Saga of Army Aviation*, 1954 to the Present. Volume 1 is written and covers the timeframe 1794-1953, including the advent of aerial observation, beginning with the *Compagnie d'Aerostiers* or Company of Aeronauts¹ during the French Revolutionary Wars to Army Aviation during the Korean conflict. Of course, the availability of participants here to interview was limited; not so from 1953 till now.

What I require for Volume 2 are stories from the immediate post-Korean War period, Vietnam conflict, post-Vietnam era, branch-hood, Grenada, Desert Shield/Storm, the Balkans, Afghanistan, Iraq, and beyond.

Such stories and information those participants are willing to share will help to chart the maturation of Army Aviation for the time frame in question; which spans the end of the Industrial Revolution, from which the Air Observation Post concept led by William Wallace Ford actually emerged, to the Technology Revolution which Army Aviation is in.

Obviously, I will not be able to use all that is provided. But that does not mean that such data cannot be used in other stories in the magazine or in future projects. For in the end, whether you flew in combat, turned wrenches or peeled potatoes, you served ... and that is what matters.

Please feel free to contact me at:

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Endnote: 1 – The Compagnie d'Aerostiers was a forerunner of the Union Army Balloon Corps; and, is considered the world's first air force. It had the world's first academy for aviation, at Chalais-Meudon, in 1794.

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AAAA Chapter Affairs By LTC (Ret.) Jan Drabczuk

Over the Top

AAA broke its record again this year with the largest ever AAAA Summit. Over 8,000 people and more than 330 industry exhibitor firms attend this great networking event!

At the summit, the association rose over \$70K for scholarships, recognized 11 outstanding individuals and units through the National Awards Program and inducted three people into the AAAA Hall of Fame at the AAAA Hall of Fame Induction Banquet. Seventy-five of our chapters had chapter members that attended the Summit, we also signed up 74 new members. One third of our chapters also sponsored a Soldier to attend the event at no cost! What a great success!

Top Chapters Recognized

Four of our Chapters were recognized at the Soldier Appreciation Concert. Chapters achieving Top Chapter of the Year status for 2018 were the Air Assault chapter as the Top Super Chapter (over 500 members), the Central Florida Chapter as the Top Master Chapter (200-499 members), the Aloha Chapter as the Top Senior Chapter (75-199 members) and the Grizzly Chapter as the Top AAAA Chapter (75 members and below). Competition was even tighter this year with more Chapter metrics evaluated. Chapters are more alive now than ever. Glad to recognize our above the best Chapters. Get out there and make yours a 2019 Top Chapter Winner!

Attendance at Our Chapter Workshop

Our Chapter workshop continues to attract Chapter officers. All AAAA Chapters were invited to attend the Chapter workshop, with AAAA National providing financial assistance for Chapters to attend. We had 30 Chapters represented and 45 Chapter officers in attendance. Individual Chapter discussions were quite robust and informative. The half day workshop focused on how to improve the quality of programs and national support that our Chapters bring to our membership. The sessions included highlights on chapter metrics, national office support, Chapter fiscal operations, local and national award procedures, scholarship procedures and membership engagements. Workshop read ahead and briefing slides can be found under the Chapter Tab on the AAAA website. Reminder, AAAA funds travel and housing for one Chapter officer to attend. Start planning now, it would be great to see more Chapters attending in 2020!

Chapter Highlights

We presently have 79 Active Chapters in 4 categories. 325 Chapter events were submitted to AAAA National in 2018. On top of quarterly refunds, the NEG directly funded an additional \$154,000 to support 85 events for 43 Chapters. Events have been grouped into six categories: Quarterly, Sporting, So-



Incoming AAAA National President, MG (Ret.) Jeff Schloesser, answers questions at the Chapter Officers Workshop during the 2019 AAAA Army Aviation Mission Solution Summit.

cial, Fundraising, Organization Days and Community Action. For this year through the end of April, the NEG has already funded \$53,475 to support 19 events for 18 Chapters. Events have been the driving force to grow Chapters with over 65 percent maintaining or growing membership. We continue to recognize our members. Last year 49 Chapters submitted 630 OSM/Knight/OLL awards. Scholarships still are a big push at the Chapter level, 39 Chapters helped keep our scholarship program alive and well. Their support helped AAAA achieve a record year awarding \$503,500 to a total of 310 scholarship participants.

Looking Forward to Next Year

The Nashville Gaylord Opryland seems like Fort AAAA. There was a great professional agenda coupled with fun events on the social agenda. Next year we are back in Nashville, 22-24 April, starting on a Wednesday. Check out the AAAA website to see new benefits available to our membership. Our Chapters are growing in numbers, improving in quality and member programs continue to improve. Our Association is strong, none of this happens without great National and Local Chapter leadership. We should all be proud that we all support Army Aviation, the Soldier, military families and the local community.

Chapter Support

Feel free to contact me if you need help for your chapter, Executive Board support, would like your Chapter featured in the AAAA magazine, or to obtain clarification of National procedures. Also, I would like to hear from any members that feel they need their Chapter revitalized or who would like to start a new Chapter. I can be reached at jan.drabczuk@quad-a.org. I am looking forward to working with you and supporting our great association.

> LTC (Ret.) Jan S. Drabczuk AAAA VP for Chapter Affairs *jan.drabczuk@quad-a.org*





AAAA Chapter News

Air Assault Chapter Golf Tourney

Air Assault Chapter hosted a chapter social and membership meeting on Friday evening, April 12th at the Gaylord Springs Golf Links Club House in Nashville, TN. Three individuals were inducted into the Silver Honorable Order of St. Michael: LTC Michael J. Mannion, CW5 Douglas A. DeBoer and CSM James D. Wilson.



SSA CSM Wilson

At the same event, Chapter President, COL (Ret.) Hawk Ruth (center) also recognized the chapter team for orchestrating the meeting and the tournament: (I to r) CW5 (Ret.) Robert L. Huffman, Treasurer; CW5 (Ret.) George C. Arzente, Treasurer; COL (Ret.) Stephen C. Smith, Sr. VP; and SFC (Ret.) Andrew J. McClure, VP Enlisted Affairs.





The following morning, the chapter launched a full flight of 144 golfers to support the chapter Scholarship Fund and AAAA Scholarship Foundation.

Aloha Chapter

UPCOMING EVENTS JULY 2019

 Submission Deadline – ASE, AMSO, Avionics, and Donald F. Luce Depot Maintenance Artisan Awards
 Blue Book Updates Submission Deadline
 22-28 EAA AirVenture, Oshkosh, WI

AUGUST 2019

 Award Submission Deadline – Logistics Support Unit of the Year; Materiel Readiness Awards; Fixed Wing Unit of the Year; UAS Soldier and Unit of the Year
 20-21 AAAA Luther G. Jones Army Aviation Depot Forum, Corpus Christi, TX
 24-27 NGAUS 140th General Conference & Exhibition, New Orleans, LA



Members and guests of the Aloha Chapter gather for a group photo during the Thirsty Third Thursday general membership meeting at Wheeler Army Airfield, HI on April 18, 2019. Approximately 40 individuals participated in the event during which 5 new members were recruited. This was the fifth event of its kind with many more to come!

Order of St. Michael and Our Lady of Loreto Inductees

PEO IEW&S Inducted



AAAA President, MG (Ret.) Jeff Schloesser (left) and AAAA immediate past president, BG (Ret.) Steve Mundt induct **MG Kirk F. Vollmecke** as a Knight of the Honorable Order of St. Michael on May 2, 2019 at Aberdeen Proving Ground, MD. Vollmecke was recognized in conjunction with his change of charter for his continuous and significant contributions to Army Aviation throughout his acquisition career, and most notably during his tenure as Program Executive Officer, Intelligence, Electronic Warfare and Sensors (PEO IEW&S). He has retired and remains in the local area.

CWOB Inducted Into GOSM



CW5 Joseph Roland, outgoing chief warrant officer of the Aviation Branch, is inducted into the Gold Honorable Order of St. Michael by AAAA National Vice President for Membership, CW4 Becki Chambers, during an awards ceremony on May 3, 2019 at the *Continued on page 67*

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K AAAA Membership Update By CW4 Becki Chambers

The Membership Corner

🔿 ummertime is upon us, which also means that PCS season is ramping up. PLEASE - do not forget to update AAAA with your new contact information, both mail and email. We want to make sure your ARMY AVIATION magazine moves with you, and that your new local Chapter can contact you.

Great news from the Summit! With the help of some amazing volunteers, we were able to process 74 new members, setting an all-time record for new memberships during Summit! So many people helped to make this happen. Students from The McGavock Raiders Chapter headed by Derek Rowe worked all three days at both the exhibit hall booth and in the Soldier Café. Brian Fields, Lisa Wilson, TJ Webb, Dylan Chambers, Shannon Kirkpatrick, Brian Sabourin, and Dave Cooper helped out at the exhibit hall booth, together with Latny & Jon Salt, Jackie Gordon, and John Maez from the Old Tucson Chapter. Lisa Rotte spent several hours each morning at the booth in the Soldier Café, signing up several new members.

Last, but certainly not least, I need to give a special shoutout to CSM (Ret.) Leon Hite. Leon has volunteered at Summit year after year, with both Membership and as the point-of-contact for the Sponsored Soldiers. Leon's assistance was invaluable, and I cannot thank him enough. Thank you, Leon, for all your help at Summit, and for everything you have done and continue to do for this organization.

Summit also gave us the chance to recognize our top recruiters for the year. In 5th place, with 31 new members, is CW2 Brian Gage of the Thunderbird Chapter. Our 4th place winner who enrolled 79 new members is SSG Stephen Gifford, Jr. from the Voodoo Chapter. In 3rd place with 89 new members enrolled is CSM Mark Baker from the Washington-Potomac Chapter. In 2nd place, with 98 new members, is Ingrid Strange from the Aviation Center Chapter. And in 1st place, with 107 new members, the winner of the MSG John Bae Top Gun award, is CW5 John McConnell with the Volunteer Chapter. Congratulations to all of you and thank you for your hard work.

A new face this year with AAAA is Laura Arena. Her official title is Director of Member Engagement, which has her working on both chapter and membership issues. Laura



AAAA VP Membership, CW4 Becki Chambers (2nd from right) with some of the many volunteers who assisted at the 2019 Summit. Pictured are (left to right): from the McGavock Raiders Chapter, Derek Rowe, R.J. Hill, and Brianna Mason; Becki; and CSM (Ret.) Leon Hite.

brings a wealth of knowledge from her previous job and she has quickly become indispensable to both Jan Drabczuk and myself. This year was Laura's first Summit and I'm not sure if she was aware of what she had gotten herself into! Laura was instrumental in the implementation of our new member benefits package, is working to expand our member engagement, and is actively helping Jan establish new chapters. Thank you, Laura, for all your hard work!

Sarah Beyer is another new person up at AAAA headquarters. Sarah is tasked with working on awards and can help you find out if a member has ever received an Order of St. Michael or Our Lady of Loreto. Sarah was another first time Summit attendee this year and worked very hard helping Jenn Chittem, our Marking Communications and Sponsorships director. Both Jenn and Sarah did a fabulous job with logos, banners, branding, and articles.

Laura and Sarah were both so impressed with Summit, thoroughly enjoyed themselves, and are looking forward to next year!

By the time you read this, we will be at the end of our Spring Fever campaign. I look forward to seeing which chapters end up being the winners. All your efforts will be helping us reach our goal of 20K by 20 Summit. We are so close! We have been over 20,000 before and I know we can do it again. Remember, we just need each member to bring in one new member and we can well exceed our goal.

> CW4 Becki Chambers AAAA Vice President for Membership





New AAAA Life Members

CW3 Michael S. Harris LTC Clinton Underwood CW5 Jimmie D. Brooks Gary Spooner John Esposito MG Troy D. Kok MAJ Brian Haas CW4 Jonathan Hulse CW3 Robert Smith CSM Bradford Lee Smith LTC Michael T. Girvin LtCol William Krouse, Ret. CW2 Zachary Koehn SFC Brandon Casev David Park CPT Michael D. Kromenacker John B. Bequette Douglas Thrush **Richard Wright**

New AAAA Members Air Assault Chapter

SGT Bradley C. Galloway 1LT Lila Garner John R. Lunnemann CPT Kyle Millard Jack B. Roberts SFC Brandon B. Vilt Aloha Chapter SGT Donald Grev **Arizona Chapter** MAJ Michael A. Mignano Aviation Center Chapter Thomas L Carr III **Badger Chapter** PV2 Kalem G. Stapelmann Bluegrass Chapter PFC Andrew W. Poole **Central Florida Chapter** PV2 Thomas B. Childress **Colonial Virginia Chapter** CW3 Charles Barrier Sr. PFC Antonio L. Pina **Connecticut Chapter** PV2 Jonathan Alvarez-Rivera PFC Joshua T. Cardinal PV2 Brandon T. Pulford PV2 Ian L. Tourtelotte **Corpus Christi Chapter** PV2 Noe I. Deleon PV2 Joseph A. Muzquiz **Delaware Valley Chapter** PV2 Nicholas C. Sammartino **Follow Me Chapter** SPC Marvin C. Coleman CW3 Leslie E. Digman, Ret. PV2 Ryan Entrekin **Great Lakes Chapter** PV2 Wyatt T. Alleshouse PFC Steely S. Carter PFC Kameron J. Peterson PFC Maximillian Richardson **Griffin Chapter** MSG Daniel m. Evans CW3 Shane M. Palmer 1LT Emily C. Renzi CPT Nicholas J. Schaefer CW3 Chris Thorn

Grizzly Chapter

PFC Bryonn N. Anderson SGT Michael M. Bobbitt PV2 Zachary T. Brishaber SPC Brandon J. Johnson SPC Manuel H. Romero SGT Lena I. Zagaris Idaho Snake River Chapter PV2 Matthew T. Arndt PV2 Gayle A. Philip Keystone Chapter PV2 Wendell J. Woods

PV2 Wendell J. Woods **Lonestar Chapter** PV2 Natalie Jasso PV2 Noah A. Young **MacArthur Chapter** SPC Oludotun O. Odunmbaku PV2 Josue N. Remy **Magnolia Chapter** PFC Justin T. Gates Mid-Atlantic Chapter SGT Kevin A. Fields SGT Gordon D. George SGT Melissa L. Green SPC Shaun E. Haines PV2 Harrison M. Kluge **Minuteman Chapter** PFC Ryan J. Fitzpatrick PV2 Jonathan T. Murray Mohawk Chapter PFC Mattea L. Taylor Morning Calm Chapter CPT Edmund Lee 1LT Ronald Palma Mount Rainier Chapter PV2 Matthew E. Kline PV2 Sloan T. Kraus CW4 Curtis Manning Long SFC William D. McCumbers SSG Ryan Kris McLellan North Star Chapter SFC Joseph Conlin PFC Eric Hatfull North Texas Chapter SPC Damian A. Alvarez PFC Jeremy W. Lance Northern Lights Chapter PV2 John Woyak Old Tuscan Chapter PV2 Amado Alvarez-Carrillo Oregon Trail Chapter Don Anderson SPC Justin C. Lambert PVT Walker J. Paullus **CPT David Sous** Pikes Peak Chapter PFC Levi C. Mair CPT Ethan Muhs PV2 Sean N. Tam **CPT Justin Volk** Ragin' Cajun Chapter SPC Ronald A. Duran **Rio Grande Chapter** SPC Ricardo R. Aguirre CW2 Eric D. Allen CW2 Lauren Anderson CW2 James L. Andreasen 1LT Guillermo Balderaz SFC Jared E. Barnard

SPC Bradley C. Barr

CPT Thomas Barth

1LT Patrick M. Brito

2LT Jennifer T. Barrantes

CPT Chris M. Broderick PFC Tobias A. Calerna SPC Nicholas A. Carriere SPC Giovany Ceballos SPC Adam S. Channels CW2 Ralph E. Collins PFC Alton K. Conerly SPC Mitchell H. Coulter 1LT Guillermo J. Diaz-Carrion SPC Marcel C. Dixon SSG Salvador A. Esposito SPC Eli T. Farmer MAJ Robbie L. Flouess SPC Alexis N. Foster SPC Patrick J. Franklin SSG Christopher E. Frost SPC JasenAdrian R. Garcia CW2 Michael Gelsamino SGT Dave A. Glover SPC Roberto Gomez 1SG James B. Graves CPL Traci J. Guinvard SSG Aledander Guterrez MAJ Dave W. Hanson SPC Sammy C. Hayek SGT Vincent T. Henchcliffe SGT Adam S. Hill SGT Aaron N. Hutchins SGT Oluwatsin O. Jamiu PFC Travis J. Kerr SPC KC R. King PV2 Brandon M. Kleinfelder CW4 Davis J. Kushel LTC Michael Lanzafama CSM David E. Lee SSG Kavla L. Lee SGT Gustavo A. Lopez SFC Teddy J. Lopez SGT Aramis E. Lugo SPC Drew M. Magill CPT Ryan C. Martin 1LT Daniel L. McNeese SPC Krista S. Mendez PFC Nicholas J. Mendez SPC Luis J. Miranda SSG Johnny L. Moorer PFC Roberto Morfin CPT Andrew C. Muilenburg SSG Henry C. Nanez SGT Steven Nelson SGT Job O. Oio SPC Mcraylee N. Omelau SPC Jeremian N. Osborn SPC John A. Otero 1LT Ralph R. Padilla SGT Jerylee J. Papatsoris PFC Dina M. Poole SSG Samantha M. Recker CSM Michael J. Resmondo 1LT Jonathan Rivera-Mann 1LT Jonathan Rivera-Marin PFC Michael D. Roberts CPT Matthew P. Robertson SGT Richard G. Robinson SPC Abel I. Rodriguez SSG Alexis Santos CW2 Andrew J. Sines SPC Joshua Smith CPT Jacqueline R. Solis SSG Allan L. Styers CPT Dillon M. Svoboda 1SG Adam S. Trammell SGT Ryan L. Travers SGT Ryan A. Ulving

1LT Dylan B. Varrato SGT Roberto L. Vazquez CPL Samuel C. Walker PFC Dennis A. Wilson SGT Tyler F. Wilson SPC Brevin J. Yelllowhair PFC Austin C. Zahara 1LT Christopher R. Zeigler **Rising Sun Chapter** SGM Kyle Patrick Clutter MAJ Brian Smith Savannah Chapter PV2 Josiah Wagner Sinai Chapter SPC Ellen Hickman SGT Raul Preciado SSG JohnPaul P. Rodriguez Southern California Chapter PFC Steve G. Beniga **Tarheel Chapter** SFC Carlos A. Campos Tennessee Valley Chapter Anthony Dupree Bonnie Octavia Flores **Thunderbird Chapter** Judy M. Rau Utah Chapter PFC Zachery T. Buck PFC Benjamin C. Curtis PFC Quentel M. Moore PFC Jordan M. Powell **Voodoo Chapter** SPC Drew Romero Washington-Potomac Chapter Jacob G. Adams SPC ZKyle E. Voeltz **Winged Warriors Chapter** SPC Aneesa Ali SPC Christopher Carlos SGT Cody Commons SGT Asia Dickerson SGT Stephanie Nakamoto Wright Brothers Chapter PV2 Owen C. Bame PV2 Hunter J. Doss PV2 Philippe M. Grand PV2 Jaleel Q. Ranson PV2 Jordon M. Smyers Zia Chapter PV2 Noah K. Lucero **No Chapter Affiliation** PFC Jeremy A. Arthur PV2 William A. Bennnett SPC Luis A. Cervantes PV2 Nathan S. Chavez PV2 David A. Cox SPC Ge Dai PFC Cory J. Dean PV2 Ryan A. Donoghue SPC Bradley J. Dougherty PV2 Gaven M. Dovle PV2 Richard L. Everett Jr. **PV2 Felix Flores** SSG Erich Fouke PV2 Devon S. Frank PV2 Jordan T. Franklin PV2 Hakeem O. Harris SPC Sung Chan Kang Ms. Jan Knowles PV2 Gabrielle A. Kornish PV2 Noah G. Kruse PV2 Dylan R. Manzanares

PV2 Austin C. Maroney PV2 Asa G. Matthews PV2 Angel G. Moreno PV2 Felix J. Ortega SPC Haley M. Porter PV2 Christyan M. Prince SPC Ricardo J. Rivera-Rios PV2 Kingsley Rodriguez-Tuttle PFC Alex Santaliz-Gonzalez SPC Kyle R. Shoults PV2 Chrystien J. Southwick PFC Dylan S. St. John PV2 Cody A. Stokes PV2 Kavonn D. Thomas PV2 Robert L. Trvtten

Lost Members

Help AAAA locate a member on this list and receive a FREE one month extension to your membership!

PFC Anthony Aleman CPT Robert Boham Harold Bowie MAJ James Bruckart E. Cavanaugh LTC Richard Cercone LTC Tzu-Shan Chang Mr. Kenneth Clark MAJ Harry Connors Cynthia Crutchfield Bruno Cussiah SGT Travis Darnell CW3 Matthew Decker 2LT Arthur Gallowav Michael Glass MAJ Gregory Glover LTC William Goforth COL Gerhard Granz Tashia Harris Smith COL Jose Hinoiosa CW4 Delbert Jackson MAJ Gregory Jenkins MAJ David Jobe LTC Peter Kowal Beth Kramer CW3 Vladimir Kultschizky CW3 Timothy Larz MSG David Little SPC Poblo Lopez CPL Williams Marquez SFC Jim Moore Fred Newcomb SFC Henry Rathbone SPC Cameron Rumbo LTC Martin Scheld Thomas Schiltz LTC Jerry Scott SPC Jeremy Sharkey SPC Shelton Shia SGT Nishi Shoqo Mr. Brian Skiltow Mr. Jeremy Smith MAJ James Speelman LTC Friedrich Stern W01 Armando Torres Mr. Kevin Tucker SPC Mark Villaluazo MAJ L.D. Walker Rose Weast SSG Johan Zarae

AAAA Family Forum By Judy Konitzer



The Department of Defense has designated April as the Month of The Military Child (MOMC) continuing the initiative established by Defense Secretary Casper Weinberger in 1986 to recognize and honor our military youth.

The entire family serves when a military member serves, but military youth make unique contributions and sacrifices on behalf of our country. They deal with separations, deployments, frequent moves, and even parent's injuries as part of a life they were born into or entered into with their families. During MOMC, units and installations around the globe honor them with a variety of events geared especially for them. I am pleased to share some photos of activities which took place before and during Month of the Military Child's 33rd Anniversary.

Judy Konitzer is the family forum editor for ARMY AVIATION; questions and suggestions can be directed to her at judy@quad-a.org.

Top middle: Colonel Steven Pierce - USAG Ansbach Garrison Commander with his two daughters Mary Catherine and Elise. PHOTO: CHRISTIE DANIELS Top Bight: Everyone who has been to Fort Bucker Alabama recognizes the

Top Right: Everyone who has been to Fort Rucker, Alabama recognizes the infamous SGT.Ted E. Bear who received a new paint job on April 1, 2019

to initiate Month of the Military Child. Fort Rucker children added their handprints to also observe National Child Abuse Prevention Month with connected activities. PHOTO: JIM HUGHES

Middle Left: Children play with bubbles before a homecoming ceremony for the 4th Combat Aviation Brigade, 4th Infantry Division, at the William "Bill" Reed Special Event Center, Fort Carson, CO, Feb. 24, 2019. PHOTO: SGT. ELIZABETH HARRIS

Middle: Children enjoying the activities while Spouses from the 82nd Combat Aviation Brigade and 3rd Brigade Combat Team, 82nd Airborne Division earned their spurs during the Annual Spouse Spur Ride on April 18,2019 at Fort Bragg, North Carolina. PHOTO: SGT STEVEN GALIMORE

Lower Left: Raul Santiago holds up a sign greeting his father, Spc. Raul Santiago, during a homecoming ceremony at the William "Bill" Reed Special Event Center, Fort Carson, Colo., Feb. 24, 2019. PHOTO: SGT. ELIZABETH HARRIS

Lower Middle: Fort Campbell-MOMC Kids Fest-27Apr19. PHOTO: AIMEE CLACK

Lower Right: StoryBook Sprint held on April 6, 2019 at Fort Campbell, Kentucky was one of many events that took place during the Month of the Military Child. It was a free 5K (untimed) and 1 mile fun run in which families were encouraged to wear costumes and participate together. PHOTO: DONALD GROVES

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Order of St. Michael and Our Lady of Loreto

Inductees continued from page 65 \ U.S. Army Aviation Museum, Ft. Rucker, AL. Roland was recognized on the occasion of his change of responsibility for his dedicated career-long support of Army Aviation. He will take command of the U.S. Military Academy flight detachment at West Point, NY.

Air Assault Chapter



Former command sergeant major of the 101st Airborne Division (Air Assault). CSM Todd Sims, is inducted as a Knight of the Honorable Order of St. Michael by Air Assault Chapter president, COL (Ret.) Hawk Ruth during a ceremony on March 20, 2019 at the Division headquarters, Ft. Campbell, KY. Sims was recognized on the occasion of his change of responsibility for his dedicated support of Army Aviation Soldiers and Families throughout his career. He moved on to be the senior enlisted leader for First Army, at Rock Island Arsenal, Illinois,



Want to change your AAA Chapter Affiliation? No Problem -Call 203-268-2450

Aviation Center Chapter



SFC Christopher A. Grant, NCOIC Hanchey Army Heliport, Ft. Rucker, AL, is inducted Into the Bronze Honorable Order of St. Michael, by Aviation Center Logistics Command commander, COL Richard A. Martin on April 9, 2019 at the Army Aviation Museum, Ft. Rucker. Grant was recognized on the occasion of his change of duty for his long-standing support of Army Aviation. He has been reassigned to Fort Wainwright, AK where he will be a platoon sergeant.

Black Knight Chapter



LTC Erik Kober. chief of simulations, is inducted into the Bronze Honorable Order of Saint Michael by the Black Knights Chapter President COL Rich Melnyk on March 5th, 2019. He was recognized for a career dedicated to Army Aviation and the induction ceremony took place in the Memorial room of Cullum Hall at West Point, NY.

Mr. Gary Nenninger, Tennessee Valley Chapter president, and BG Thomas Todd, Program Executive Officer Aviation, induct COL Randy Murray, military deputy/G-3 for the PEO Aviation, into the Silver Honorable Order of St. Michael on March 8, 2019 at the Bob Jones Auditorium, Redstone Arsenal, AL. Murray was recognized for ensuring the effective integration and coordination across PEO Aviation's primary staff and nine project management offices consisting of over 3,000 personnel.



CW4 (Ret.) Ernest J. "Nick" Nickles, Black Hawk Crew Station Working Group Lead, CCDC Aviation and Missile Center, was inducted into the Silver Honorable Order of St. Michael by COL Billy Jackson, Project Manager Utility Helicopter on Feb. 28, 2019 in Huntsville, AL. He was recognized for leading the integration of many successful changes to the Black Hawk cockpit systems since the beginning of the development of the UH-60M.

AAAA Functional Awards - Open for Nominations!



Deadline: August 1

- Logistics Unit of the Year Award
- Materiel Readiness Award for a Contribution by a Small Business or Organization
- Materiel Readiness Award for a Contribution by an Individual Member of Industry
- Materiel Readiness Award for a Contribution by a Major Contractor
- Materiel Readiness Award for a Contribution by an Industry Team, Group, or Special Unit
- UAS Soldier of the Year
- UAS Unit of the Year
- Fixed Wing Unit of the Year

Deadline September 1

- Air/Sea Rescue
- ATC Facility of the Year
- ATC Unit of the Year
- ATC Technician of the Year
- ATC Controller of the Year
- ATC Manager of the Year
- DUSTOFF Medic of the Year
- Medicine Award

Trainer of the Year

Please email all completed nomination packets to:

awards@quad-a.org



In Memoriam



AAAA Bids Farewell to Joan

We at AAAA headquarters are saddened to announce the sudden passing of one of our team, Joan Zinsky, who was 80 years young. Many outside the headquarters only knew her by her voice when calling in; but, those of us who worked side by side with her over more than 30 years truly have lost a dear friend and co-worker. She was a wonderful lady who had an infectious laugh... she will be missed by all. She was at the office as usual only a few days before she passed away unexpectedly at home.

Rest in peace Joan. We miss you already.

Thank You to Our Scholarship Fund Donors



AAAA recognizes the generosity of the following individuals, chapters and organizations that have donated to the Scholarship Foundation ifrom January 2019 through May 2019. The list includes donations received for all scholarships, as well as the General Fund which provides funding to enable the chapter, corporate, heritage and individual matching fund programs as well as national grants and loans. Donors marked with an * are partially or totally donating to the newly established Families of the Fallen Scholarship. Every penny donated to the Scholarship Foundation goes directly to a grant or loan as a result of the Army Aviation Association of America subsidizing ALL administrative costs!

AAAA Badger Chapter AAAA-Speaker Donation 2019 Summit Airbus Helicopters, Inc. Alyssa Perry Amazon Smile Ameripack Amy Anderson Army Aviation Center Federal Credit Union BAE System Boeing **Booz Allen Hamilton** Bradley S Boyer Alexandria H Boyer Brig Gen Harry H. Bendorf Canebrake Club, LLC Cari Kreisel Charleen Kennedy Charles David Bayless Charles E. Wright Jessica L. Wright Christie Revenga Colonel (RET) Harry Townsend, Diana L Townsend Community Health Charities **Concept Components** D.R. Haag, D.E. Haag Dan Brown Daniel T Madish, Elisabeth Madish David Blackburn David John Stock II Jennifer Lynn Stock Davis Aircraft Products Co., Inc. Debra Harlow-Aldecoa Donald Munsch Edward Lewis Landry, Kimberly A Jamison EJ. Sinclair Susan Sinclair Ellen Luz Ramil, Manuel B Ramil Emily M Miller Evelyn A. Soucek Trust

Gail Vergez Greater Giving Ingrid K Bruce Ironmountain Solutions. Inc. JACS Aircraft Certification Specialist James E. Rogers Reba A. Rogers James Emerson Jason Benedict Jeff Becker Jerry P. Mellick Jodi Lynch John Maez John S. Bolton, Linda S. Bolton Johnson& Johnson Jolanda Masters Jon C Eidem Judith H. Janowiak Judy French Karissa Poe K-Con, Inc. Kelly F Carberry Khalifa Almeghairi Laura Arena Laura Steele Leslie H Gilbert LTG William Phillips, Ret Marilyn H. Phillips Marc Rassler Marlene Raczkowski Masaki Sudo Matthew J. Sheedy Michael Younce Michele Lynn Broshear Mimi F. Boulden Munsch & Co. Aeromechanics N. L. Amato Network for Good

Pamet W. Brown Patriot Taxiway Industries, Inc Paul McCarthy Peduzzi Associates LTD Phantom Products Inc. **Piasecki Foundation** QuantiTech, Inc. **Robert Seigle** Robertson Fuel Systems Roy Sullivan S D Mundt, B J Mundt Safran El. & Def., Avionics USA Safran Helicopter Engines Safran USA Virginia Scott Kubica Sharon Kleiber Shashy Family Charitable Fund Shelley Yarborough Sidney W Achee Steven M Soucek Chandra L Soucek Strata-G Solutions, Inc. System Studies & Simulation, Inc. T Konitzer, TJK Konsulting Inc. Tactical & Survival Specialties, Inc. Tee It Up for the Troops, Inc. The Luminescence Foundation, Inc. The OV-1 Mohawk Association Tier 4 LLC Timothy Wooldridge Veteran Guardian VHPA Scholarship Fund Victoria Bendure Vietnam Helicopter Pilots Association William Newby William Phillips *Families of the Fallen Scholarship Fund

For more information about the Foundation or to make a contribution, go online to *www.quad-a.org* Contributions can also be mailed to: AAAA Scholarship Foundation, Inc., 593 Main Street, Monroe, CT 06468-2806.



AAAA **Awards**



Order of St. Michael Inductees

Silver

CSM Rodney W. Harris COL Thomas E. Burke Jill Davis CW5 Ronald J. Friel CW5 Douglas A. DeBoer CSM James D. Wilson LTC Michael J. Mannion CW5 Douglas E. Finstad Robert Bean CW5 Patrick Francis COL Shawn P. Manke CSM Billy D. Webb LTC Rodney A. Turner CW5 Jerry Blackwell CW5 Michael C. Fiala CW4 Jason L. Pike CW5 Brian M. McGlone LTC Ryan I. Moore LTC Jacob W. Miller CW5 Robert A. Korecky CW5 Lynwood T. Saville

Bronze

CSM Rodney W. Harris SSG Todd A. Barker CW4 Paul Getner CW3 Flvin R. Carr CW5 Leslie M. McNellie CW3 Marc Johnson LTC Thomas M. Jones SFC Matthew A. Kipp CW4 Scott D. NewMyer CW5 Shawn R. Longwell CW5 Elijah E. Mavers MAJ Jeremy Thorton MAJ Kyle Reeves MAJ Robert Wells CW4 Stephen W. Rvznic CW4 Ryker B. Hall CW4 David Weston SFC Matthew J. Bricklev SFC Joshau C. Miles SFC Brian N. Robinson SFC Daniel Gonzalez SFC Nikolaos S. Kapodistrias CW3(P) Salem St. James CW3 Christoforo Kimoto MAJ Joy F. Nickel LTC Walker W. Scott III CW4 Robert M. Ware

CW4 William J. McClain MAJ Jerome A. Reitano CW4 Thomas Johnson LTC Andrew J. Duus LTC Roger P. Waleski MAJ Anthony Colgary LTC Clifton T. Causey CW4 Cody W. Grow **CPT Justin Gill** SFC Douglas E. Wilson Jr. CPT Michael Arcangelo CPT Joseph B. Wilev CW4 Jason L. Burke CW4 Francois Collard CPT Justin R. Rapp 1SG Nathanial R. Kittredge 1SG Michael R. Marshall **1SG Allen King** 1SG Jesse L. Wandling CPT Robert E. Turns 1SG Ralph T. Woods CW3 Brian J. Riesberg CW3 Daniel B. Hodge CW2 Roger J. Schilling Michael T. Cowperthwait CSM Carl E. Goss CW5 Margues A. Martins LTC Christopher A. Spencer CW4 Eric B. McPherson CW3 Jesse D. Coslow CW3 John C. Cole CW4 Andrew J. Sorenson CPT Ryan Maynard CPT Rvan Kirkeby CPT Robert Caraccilo CPT Reed J. Alexander MAJ Christopher D. Zotter CW4 Mitchell K. Villafania MAJ Ryan Travis MAJ Jon Ryder 1SG Preston E. Ring CW2 Brian C. Reddington SSG Aaron Powers CPT Shawn P. Plumb MAJ Kent B. Monas CW3 James L. McCormick SFC John Koones **1SG Lonnie Gilstrap** 1SG Christopher J. Frye SFC Michael S. Franklin MAJ David Crigger MAJ Christopher Colbert 1SG Christian R. Barrios CW3 Rene Carrillo SFC Eric M. Scott **1SG William Wilson**

CW3 Alan R. Crawford SFC Timothy A. Shoopman CPT Megan Reading CPT Stephen T. Sexton LTC Mark Jacques MSG Craig R. Covington **1SG Darrell Williams** SSG Kevin E. Jones MAJ David T. Powell MAJ Michael J. Vanleeck CW3 Michael Beck LTC Jeong Sik Kim COL Yong Dae Kim COL Yong Sung Kim LTC Jeong Yoon Park CW3 Anthony J. Culley MSG Tom Migliozzi, Ret. MSG Robert Wood COL Mark Vandvke SGM Jeronimo Valdez MSG William W. Smith CW5 Bruce Pulgencio SGM Robert Pruitt CSM Marcus L. Kellam CW4 Glvne Johnson COI David Hall MSG Janet Graves CW5 Jeffrey Crandall COL Louis E. Carmona COI William T. Breeze 1SG Kenneth N. Welshans 1SG Cody A. Fordemwalt CW5 Jerry F. Irick CW5 John Bilton CW4 Thomas H. Parker Richard M. O'Connell William J. Papich LTC Nick J. Morgus Jr. LTC Lourie N. Formby III CW4 Joval F. Eblen III MSG Alexis Bastidas CPT Clifford D. Crofford CW3 Bernard A. Higdon CPT (P) James C. Keaton CPT (P) Steven E. Mohr CPT (P) Sharil K. Richards MAJ Kevin Loughnane CW4 David A. Stettenbenz MAJ Gregory J. Gobel 1SG Frank W. Palfrey Jr. CW4 William Nedostup CW4 Timothy Seesholtz Edward Killilea CW4 Daniel Muthler CW3 Richard Hill MAJ Robert S. Dunlap CSM Shane M. Couchene LTC Stephen L. Clower CW3 Justin H. Blizzard CPT Zachary D. Daker CW3 Dustin Harkness MAJ Michael Gabrhel CPT Richard Ortmann Alexander Gorshenin MAJ Bryan Whittier CW4 Jonathan Hulse



Honorable Order Knight Kristie Lynn Scheuer Michelle F. Staggs LTC Christopher M. Hill Dr. Carlos Correia Jennifer Beck 1LT James D. DiCarlo SFC Alvin E. Ortiz-O'Niell Dr. Angus H. Rupert CPT Andrew M. Krumm CPT Joshua R. Smith CPT (P) Jason C. Lovallo CPT Joseph S. Douthitt MSG Brian L. Beers Peter J. Mock



Our Lady of Loreto Recipients

Paula Turner Jasmine Ortmann Crvstal Diehl Melinda "Mindy" Scott **Emily Finney** Adrianne Fuscellaro Jennifer Smith Tara Webb Rebecca L. Pinckney Sharon McKinnev Bre Ayers Melissa von Eschenbach Angela R. McHugh Victoria Mariani Mary E. Rouse Summer L. MacGregor Lynne M. Bordeleau-Bennett Patti King Melissa Willett Stephanie Balmforth Amanda L. Greenford Margaret Elizabeth Caraccilo

Chapter Recognition Awards Soldier of the Month

SFC Carlos A. Campos Ragin' Cajun Chapter January 2019

SPC Shaun E. Haines Mid-Atlantic Chapter February 2019

SGT Kevin Fields Mid-Atlantic Chapter December 2018

SGT Melissa Green Mid-Atlantic Chapter February 2019

Sqt Gordon D. George Mid-Atlantic Chapter January 2019

SPC Justin C. Lambert Oregon Trail Chapter March 2019

MAJ Michael A. Mignano Arizona Chapter April 2019

SPC Damian A. Alvarez North Texas Chapter January 2019

SPC Manuel Hureta Romero Grizzly Chapter April 2019

SPC Brandon J. Johnson Grizzly Chapter May 2019

SPC Walter J. Tygret Oregon Trail Chapter April 2019

Soldier of the Quarter

PFC Bryonna N. Anderson Grizzly Chapter 3rd Quarter 2019

Soldier of the Year

SGT Thomas R. Woolford Mid Atlantic Chapter December 2018

NCO of the **MOnth**

SGT Lena L. Zagaris Grizzly Chapter April 2019

NCO of the

Quarter SGT Michael M. Bobbitt Grizzly Chapter 3rd Quarter 2019

In Memoriam

COL William M. Gavora. Ret. LTC Charles S. Kettles, Ret. Mary Letts CW5 Earl Peay, Ret.

NETWORK | RECOGNITION | VOICE | SUPPORT

Industry News Announcements Related to Army Aviation Matters

Editor's note: Companies can send their Army Aviation related news releases and information to editor@quad-a.org.



PHOTO MARTIN UAV

Replace Shadow The U.S. Army has selected Martin UAV and AAI Corporation, a unit of Textron, to provide unmanned aircraft systems for platoons to try out as candidates to replace the Shadow tactical UAS. The indefinite delivery, indefinite

quantity contracts are worth up to \$99.5 million each over a threevear period. The plan is to deliver several systems to six platoons in Army Forces Command that will evaluate them during combat

training center rotations. The designated platoons have not yet been identified. The unmanned aircraft were selected after a fly-off during December 2018 and January 2019 at Dugway Proving Ground, Utah.

DoD Launches New Chief Technologist Website

On April 24, 2019, the office of the Under Secretary of Defense for Research and Engineering (OUSD(R&E)) launched a new public website, https://www.cto.mil. The new website will help members from the different services, industry, academia, allied partners and the American public to stay informed on happenings in the DoD research, development, engineering and technology enterprise.

Davenport FSI President/CEO



FlightSafety.

FlightSafety International announced on May 14, 2019 that David Davenport will now lead the company as President & CEO. He most recently served as Co-CEO and President, Commercial. Ray

Johns, who previously served as Co-CEO, will continue as President, Government and Manufacturing. He oversees the services and products FlightSafety offers to government and military agencies, as well as the design and manufacture of flight simulation products and visual systems.

Contracts – (From various sources. An "*" by a company name indicates a small business contract)

General Atomics Aeronautical Systems Inc., Poway, CA, was awarded a \$99,020,937 cost-plus-incentive-fee contract for performance-based logistics support services for the MQ-1C Gray Eagle Unmanned Aircraft System; work will be performed in Poway, with an estimated completion date of April 23, 2024.

Gentex Corp., Simpson, PA, was awarded a \$27,860,817 firmfixed-price contract for the Head Gear Unit 56/P Rotary Wing Helmet: work locations and funding will be determined with each order, with an estimated completion date of April 25, 2024.

Honeywell International Inc., Phoenix, AZ, was awarded a \$70,486,623 modification to contract W56HZV-12-C-0344 for total integrated engine revitalization hardware services; work will be performed in Phoenix, with an estimated completion date of June 30, 2021.

Lockheed Martin, Orlando, FL, was awarded a \$723,550,174 modification to domestic and Foreign Military Sales (Lebanon, Netherlands and France) contract W31P4Q-18-C-0130 to procure a variety of HELLFIRE II missile variants; work will be performed in Orlando, with an estimated completion date of Sept. 30, 2022.

System Studies & Simulation Inc., Huntsville, AL, was awarded a \$12,364,338 modification to contract W31P4Q-09-A-0019 for technical support services; work will be performed in Huntsville, with an estimated completion date of March 31, 2020.

The Boeing Co., Mesa, AZ, was awarded a \$171,887,544 hybrid (cost, cost-plus-fixed-fee, and firm-fixed-price) contract for performance-based logistics service in support of the AH-64E Apache attack helicopter fleet: work will be performed in Mesa, with an estimated completion date of April 30, 2020.

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General Atomics Aeronautical Systems
Gulfstream 17
MD Helicopter 11
MOOG
PCX Aerostructures
Phantom Products, Inc
Science and Engineering Services, SES, Inc 2
SKEDCO, Inc
Streamlight Inc
Tyoneck
ViaSat Inc27
Vinnell Arabia
Yulista Holdings, LLC



By LTC Kevin Cochie, Retired AAAA Representative to the Military Coalition (TMC) *kevin.cochie@quad-a.org*

The Unpredictable Budget Cycle on Capitol Hill

For so many years the new norm was for Congress to receive the budget request from DoD via the White House and then months of hearings, meetings, cuts, and adds only to arrive at 1 October with impasses between the House and Senate that lead to a Continuing Resolution that snow balls into uncertainty within DoD and the Defense industry.

After years of Congress failing on their timeline to provide timely legislation on policy and funding, last year we jumped for joy when Congress did their job and turned out the authorization and appropriations bills on time. For once our certainty of uncertainty was replaced with gratitude to our lawmakers coming through for us.

Now, here we are in the midst of the FY20 Congressional markup cycle that began late this year (March) and, by process, should turn out the two defense bills on time by the end of September. So, are we on track? The short answer is that no one really knows, and many are confused that the 4 defense committees are not following the normal sequence of finishing the "mark-up" of the budget request. For decades, the House Armed Services Committee (HASC) has been the first to complete their version of the National Defense Appropriations Act (NDAA) and to coin a term from a former senior HASC staffer, "the HASC always sets the windsock" for all committees to complete their mark-ups. Normally then, the SASC completes their mark-up of the NDAA followed by the House Appropriations Committee-Defense completing their version of the appropriations bill, and then last. Senate Appropriations Committee-Defense completing their version of defense appropriations.

So, not only can we not count on the old norm of uncertainty of Congress even completing the legislation on time, we now are further confused at the sequence of completion in this year's process. This past month, one of the mark-ups was completed, but it was not the HASC as normal. The HAC-D completed their adjustments on the appropriations bill which we will remind our readers is the legislation that actually issues funding. The White House requested \$750B for Defense and the HAC-D is only authorizing \$690B.

What is interesting here is the mix between base budget request (limited by Sequestration) and Overseas Contingency Funding (OCO)(Sequestration does not apply). The President's budget overtly tries to accomplish a Sequestration end-around by requesting base dollars at \$576B which is the limit with Sequestration, but also requests \$164B in OCO funding. With no bi-partisan deal on defense spending, this was a good try, but law makers know this is the loophole that DoD pursues, and they do not like it. Now, take a look at what the HAC-D presented. Sure, we would expect the total at \$690B to come in lower than the \$750B request, but the mix between base and OCO is interesting. They are allowing for \$622B and \$68B in OCO. Why is this interesting? Well, it's Congress that passed the Budget Control Act of 2012 that gave us Sequestration and it's Congress that can repeal it. That is not happening anytime soon, yet the HAC-D is basically saying out loud that they think DoD deserves more base dollars than what Sequestration will allow.

We will do our best to continue to explain this process and status in the months to come, but some of it is really hard to explain (except for you closet political nerds).

What's to Come This Summer?

It's very important that the 3 other committees pass their mark ups and the two defense bills get into the "conference" period. This needs to happen by end of June if there is any possibility the legislative differences will be resolved in time for final passage and signature by the President.

As we stated last month, it is remote at best this is going to happen. There is plenty of dysfunction that indirectly contributes to the lack of progress and compromise on defense spending. One is the border wall that still stings quite a few on Capitol Hill. Then there is immigration reform that seems to be growing as a priority with the White House. Oh, wait, what about the debt limit? Without action here by September, sequestration will certainly kick in for the entire federal budget and the Treasury will be at risk for defaulting on the national debt.

So, there is a lot to watch and we encourage our readers to consider nondefense issues that have direct impact to the ability to get on-time policy and funding legislation.

Acquisition Policy

A notable piece of legislation in work by the Armed Services committee is more reform on defense acquisition and is said to result in changes that "make a big difference across the department." These include rapid prototyping and fielding and establishing "a modular open system approach for major defense acquisition systems." I'm a former acquisition officer and actually thought we already had policy on this, so we'll look forward to reading the details! I think our strong bench of Army Aviation Industry partners will welcome further reform that streamlines the process too!



Army Aviation Blue Book AAAASFI Scholarship Winners Corpus Christi Army Depot

CONTACT:

MEDEVAC

Proponency

Bob Lachowski or Erika Burgess aaaaindustry@quad-a.org 203. 268.2450

People On The Move

Aviation General Officer **Promotions/Assignments**

The Senate confirmed the following general officer aviators for promotion:



MG Leon N. Thurgood, United States Army, for appointment to the rank of lieutenant general and assignment as Director of Hypersonics, Directed Energy, Space and Rapid Acquisition, Office of the Assistant Secretary of the Army (Acquisition,

Logistics and Technology), Redstone Arsenal, AL. He most recently served as Director for Test, Missile Defense Agency, also at Redstone Arsenal.



BG Lonnie G. Hibbard. for promotion to the rank of major general; he is currently serving as the commanding general, United States Army Center for Initial Military Training, United States Army Training and Doctrine Command, Joint

Base Langley-Eustis, VA.

Changes of Command/ Responsibility

Wings of Lightning Brigade Welcomes Garcia



MG Ronald P. Clark, commanding general, 25th Infantry Division, passes the 25th Combat Aviation Brigade colors to incoming commander, COL R.J. Garcia, while outgoing commander, COL Thomas Burke, looks on during a change of command ceremony on Weyand Field, Schofield Barracks, Hawaii, May 14, 2019.

Awards

USAREUR Best Warrior Competition



From left to right, U.S. Army CSM Robert Abernethy, command sergeant major of U.S. Army Europe, WO1 Rhett Mason, assigned to the 12th Combat Aviation Brigade, and MG Andrew Rohling, deputy commanding general of U.S. Army Europe, pose for a photo during the U.S. Army Europe Best Warrior Competition award ceremony at Tower Barracks, Grafenwoehr, Germany, May 10, 2019. Mason, a native of Pensacola, Florida, received an Army Achievement Medal for being the runner-up for U.S. Army Europe Best Warrior in the warrant officer category.

CCAD Completes 10,000th Engine



From left to right, COL Gail Atkins, commander, Corpus Christi Army Depot, Texas: Cristina Seda-Hoelle, general manager, military customer services, General Electric Aviation; and Tim Hillenburg, director of engine production, CCAD, cut a ceremonial cake during a ceremony at CCAD, March 14, 2019. CCAD celebrated completing 10,000 T700 engines in partnership with GE. Over 20 thousand engines and other helicopter parts have been processed through CCAD during the lifetime of the partnership. which began in 2000.

Promotions Flight School Graduates

AAAA provides standard aviator wings to all graduates and sterling silver aviator wings to the distiguished graduates of each flight class ... another example of AAAA's SUPPORT for the U.S. Army Aviation Soldier and Family.



AAAA congratulates the following officers graduating from Flight School XXI at the U.S. Army Aviation Center of Excellence, Fort Rucker, AL.

58 Officers, March 28, 2019 Commissioned Officers

- 2LT Glauser, Lucas W. DG
- 1LT Bickham, Caleb B. HG
- 1LT Bugaj, Mitchel L. HG
- 1LT Fazzari, Lucas D. HG 2LT Gray, Joseph W. - HG
- 2LT Albgowr, Nawras
- 2LT Alhashem, Rashed
- 2LT Alna'amneh, Abdallah
- 2LT Alsharafat, Baker
- 2LT Bailey, Timothy S.
- 1LT Burkhardt, Clayton A.
- 1LT Buyse, Erin M.
- 1LT Carbol. Jordan D. 1LT Dahm, Brianna E.
- 1LT Deckard, Joshua L.
- 1LT Giggey, Derrick D.
- 2LT Guerrera, Meghan E.
- 1LT Manion, Ryan M.
- 1LT McClure, Érik W.
- 1LT McKay, Jacob A. CPT Offret, Dustin R.
- 2LT Pernelli, Stephen F. *
- 2LT Phillips, James A.
- 1LT Sandalo, Marisol D.
- 2LT Sim, Lauren V.
- 2LT Smith, Ethan M. 1LT Thies, William S.
- 1LT Watkins. Kyle J.

Warrant Officers

- WO1 Roth, Gregory F.* DG
- WO1 Johnson, Carl H.*- HG WO1 Lung, Joel J. * - HG
- WO1 Morris, Kyle B. * HG
- WO1 Terry, Kyle D. * HG
- WO1 Anderson, Cody D.
- WO1 Freeman, Matthew M.* WO1 Gordy, Eric D.
- WO1 Hawron, John M. WO1 Helton, Torrey A.
- WO1 Jones, Abby E.
- WO1 Knight, Arlin D.
- WO1 Ledlow. Joseph M.
- W01 McCall, Matthew J. WO1 McCullough, Shayne D.
- WO1 McLean, Frederick D.
- WO1 Ostavitz, Christopher J.
- WO1 Redmond, Taylor M.
- W01 Ruiz, Allan I.
- W01 Seaman, Trevor S.



People On The Move

Warrant Officers

W01 Stidham, Cory M. W01 Streaker, Joseph W. WO1 Taylor, Erik T. WO1 Thon, Vandy WO1 Vernor, Joshua L WO1 Walborn, Drew N. WO1 Warren, Andrew P. WO1 Yager, Brandon W. 45 Officers, April 11, 2019 **Commissioned Officers** 2LT Hunter, Jacob D. – DG 1LT Demeuse, Austin R. – HG 1LT Lachance, Austin T.*- HG 2LT Mason, Troy J. - HG LT Uyehara, Stephen B. – HG LT Uyehara, Stephen B. – HG LT Alshoubaki, Laith LT Blank, Stephen M. LT Bittain, Pete M. 1LT Butts, Kenneth G. 2LT Carlisle, Patrick S. 2LT Davila-Caro, Helen M. 2LT Gerdes, Graham M. 2LT Gibson, Samuel J. 1LT Glover, Larry K. III 2LT Huber, Cole J. 2LT Hyler, Justin K. 1LT Jumper, Brenton M. 2LT Mendoza-deJesus, Jeremy 1LT Mittlestaedt, James M. 2LT Notti, David O. 1LT Otto, Daniel R. 1LT Penley, Laura C. 2LT Puckett, Kelli L. 2LT Quinn, Stephen R. 1LT Sullivan, Andersson J. 2LT Tarascio, Joseph A. 1LT Yaglowski, Scott L. Warrant Officers WO1 Morrill, Skylar C.*- DG WO1 Geyer, Benjamin E. *- HG W01 Welch, Colby J.* – HG W01 Womer, Travis G.*– HG WO1 Bisnett, Cody C. W01 Bradford, Patrick R. WO1 Broome, Shane M. WO1 Calleja, Joseph A. WO1 Denesowicz, Matthew A. WO1 Donaldson, Daniel R. W01 Geipel, Andrew T. W01 Gray, Richard A. W01 Johnson, David A. W01 Jonus, Charles L. WO1 Malpass, Alton M. WO1 Prestianni, Nicholas D. WO1 Rocha, David M. W01 Skupin, Alexander * 38 Officers, April 25, 2019 Commissioned Officers 2LT DeFreece, Dakota R. – DG 2LT Strobel, Oliver R. – HG 1LT White, Aidan M. - HG 2LT Bissinger, Jacob A. 2LT Chapman, Havden R. 1LT Condez, Christian A. 2LT Cornell, Matthew C. 1LT Fisher, Glen M. 2LT Gentry, Seth-Austin R. 2LT Goodpaster, Alexander J. 1LT Hakimi, Sayed 2LT Hamidi, Qudratullah 2LT Krol, Timothy P. 2LT Kubik, Benjamin C. 2LT Paktiwal, Mohammad 2LT Roberts, Mark L. 1LT Smith, Michael G.

W01 Sheninger, Kaci L.

W01 Starr, Joseph L

WO1 Albright, Christopher A. - DG WO1 Emlingt, Samuel G. * – HG WO1 Emling, Samuel G. * – HG WO2 Haka, Stewart M. – HG WO1 Whitney, Matthew B. – HG WO1 Adkins, James M. WO1 Alldridge, Karen J. W01 Cook, Chase A. W01 Diaz-Colon, Alberto WO1 Elliott, Eric A. W01 Hoover, Corey B. W01 Isley, Jarrod M. WO1 Mackoviak, Diana C. WO1 MacLee, Christopher D. * W01 Martinez, Argui W01 McFarland, Kienan R. W01 McFarlane, Jesse S. W01 Mehltretter, Andrew J. W01 Murphy, Brendan L. W01 Perales, David J. W01 Rall, Brendan J. W01 Thayer, Michael S. 48 Officers, May 9, 2019 **Commissioned Officers** 1LT Laboe, Gregory D. – DG 2LT Duffy, Mark A. * – HG 1LT Seegmiller, Trevor J. – HG 2LT Young, Cory N. – HG 1LT Bravo, Robert M. * 1LT Camacho, Francisco J. 1LT Deardorff, Daniel P. 2LT Fattman, Anthony J. 1LT Hart, Michael K. 1LT Kenny, Kit C. 1LT Landry, Nathaniel J. 1LT McGhee, Hayden G. 2LT Russell, Kelly M. 2LT Salix, Valerie G. * 2LT Salix, Valerie G. * 2LT Schorr, Natalie M. 1LT Toner, Zachery C. 2LT Trumble, Alex D. 1LT Watson, Jacob M. 2LT Wolfe, Austin O. Warrant Officers W01 Valovich, Ryan S. – DG W01 Nelson, Kyle F. – HG W01 Petree, Thomas O. * – – HG CW2 Shealey, Jacob E. - HG WO1 Swift, Nathan D. - HG WO1 Aguirre, Aaron B. W01 Battle, Alek J. W01 Brewer, Adrian S. * WO1 Butenschoen, Adam C. W01 Cannoot, Michael K. WO1 Carlomusto, Alyssa A. WO1 Daniels, Germaine S. WO1 Durgin, Mia A. WO1 Eaves, Andrew L. WO1 Garrigues, Brandon T. WO1 Gird, Steven A. W01 Greening, Brandon M. W01 Henke, Stephen C. WO1 Holdaway, Joseph A. W01 Mesta, Adam D. WO1 Osborne, Pavton S. W01 Richards, Zachary J. W01 Saenz, David L. * W01 Schnupp, Phillip C. WO1 Thielen, Taylor D. WO1 Thompson, Charles L. WO1 White, Hannah M. WO1 Wilhelm, Justin A. WO1 Zarlenga, Robert J.

- DG: Distinguished Graduate HG: Honor Graduate
- = AAAA Member









People On The Move

FY 2019 Lieutenant **Colonel Army** Competitive Category **Selection Board** Results

The fiscal year 2019 lieutenant colonel army competitive category selection board results were released May 9, 2019. AAAA congratulates the following 86 Aviation majors on their selection.

Seq

0169 Adams, Edward C *0485 Anderson, Lucas R 0105 Angus, Grayson F 0460 Attaway, James A 0156 Battle, James A 0409 Beck, Herbert F Belobraidic, Bonnie 0442 Betz, Travis 0441 Bottrell, Jeffrey P 0406 0040 Bowman, Matthew J Bozovich, Stephen R 0407 0304 Brownell, Mackland Buck, Mark A 0331 Burke, Megan T 0310 0107 Button, Paul Steven 0466 Casiday, Billy B 0096 Channels, Benjamin Chivers, Luke T 0265 0160 Christensen, Pearl Christy, Joshua T 0375 Clark, Joseph A 0176 0283 Comeaux, Aris J Cookey, Michael D Dana, Todd A 0259 0104 Decker, Timothy J 0374 Delafuente, Rene M 0207 0036 Duvall, Adam G 0417 Evans, Andrew S 0164 Ewell, Phillip J 0028 Ewing, Jonathan P 0039 Feathers, Scott T Freude, Anthony E 0090 Fuscellaro, Anthony *0497 0372 Gardiner, Ashley R *0481 Gates, Bradley C 0206 Gillett, Kristopher 0174 Gosney, Chad M Hall, Charles W 0273 Hodges, Matthew A 0161 0337 Hogan, Timothy D 0244 Holt, Douglas N *0478 Hudson, Rhian A Hultguist, Michael 0346 0303 Isenberg, Trevis C Jones, David R 0242 0055 Kane, Daniel M 0277 Kane, Kevin P 0087 Katzenberger, Keith 0171 Knowlden, Jarrod K 0348 Koch, Richard P Landers, John J 0151 Loeffert, Ethan 0180 Malcomb, Dylan W 0235 0314 Mardis, Brett A 0190 McCoy, Adam S 0025 McKinney, Paul L 0220 Merkl Brian M 0187 Miller, Joseph J

0419 Miller, Trent D Mueller, Christopher 0234 0332 Muller, Jeremy A 0165 Mullins, Justin V Nadler, Jonathan C 0343 0302 Norland, Jeramy R 0003 Norris, Dana Omodt, Michael S 0300 0230 Orzech, David J 0181 Polk, James B Rabb, George T 0060 0267 Robbins, Cristian A 0237 Rodriguez, Elpidio 0185 Roman, David F 0054 Roper, Jacob E 0147 Rouzer, Charles O 0031 Sartori, Timothy E 0094 Schapker, Brian T Slingerland, Kather 0463 0305 Stahl, Nathan A 0457 Swanson, Justin J 0307 Taylor, Patrick J 0020 Underwood, Clinton 0092 Walker, Charles R Watts, James F 0367 0373 White, Kevin C 0184 Wientjes, Gage L 0270 Yang, Andrew K

* Below the zone selection

ADVANCED INDIVIDUAL TRAINING (AIT) GRADUATIONS

AAAA congratulates the following Army graduates of the indicated Advanced Individual Training (AIT) courses at the 128th Aviation Brigade, Joint Base Langley-Eustis, VA and the U.S. Army Aviation Center of Excellence, Ft. Rucker, AL.

AH-64 Attack **Helicopter Repairer** (15R)

Člass 006-19

PV2 GabrielleA. Kornish*-DG PV2 Kevin Matthew Aragon PV2 Elizabeth Lucille Auer PV2 Samantha Marie Costa PV2 Mckynzie Rae Dragoo PV2 Morgan J. Meisenheimer PV2 Brenna Shae Parker PV2 Kelsey Jean Robinson PV2 Britanny Lynn Robison PV2 Tess Ke Aloha Sandoval Class 506-19 PFC Zachery T. Buck * - DG PV2 Jaden Brye Bolton PV2 Eduardo Delgado CPT Mostafa S. R. Elafifi PV2 Tristen M.Fourtunia SPC Anthony Michael Kalm PV2 Zachary J. R.Korbel PV2 William Harold Marlowe PV2 Noah James Marquis PFC Gabriel Antonio Perez PFC Matthew Rey Sanchez SPC Daniel James Teixeira Class 507-19 PV2 Dillon J.Henschen - DG

PV2 Maxwell Lyle Dayton PV2 Damion Antoine Isum PV2 Joseph P. Lymore Jr. PV2 Ethan W. Marsingill PV2 Bong Jun Moon SPC Delmar D. Operania PV2 Itzchak Joseph Parizat PV2 Ryan D. Petersen PV2 Shannon Lee Pinkston PV2 Justin Lokepa Pires II Class 007-19 PFC Steve G.Beniga * - DG PV2 Eric Phillip Borunda Jr. PV2KristopherE.Christensen PV2 Samuel E. Garcia PV2 Bryson Taylor Johnson PV2 Austin Lee Jordan PV2 William Ortega PV2 Marco Antonio Tollinichi SGT Daniel Steven Walker PV2 David R.I Washburn Jr. PV2 Tyler Allan Wilt Class 008-19 PV2 Felix J. Ortega * - DG PV2 Trey Lee Barrett

PV2 Nathan Cory Black PV2 Daniel R. Castillo III SGT Ssu-Hua Chin PV2 Corey Anthony Davis * PV2 Jacob James Frost SPC Anthony Youki Lambert PV2 Christian Dean Roberts PV2 Thomas Cetin Shearer PV2 Zacharian Tarik Spigner PV2 Justin Addison Wilson Class 508-19 PFC Jordan M. Powell * - DG

PV2 Mercedes S. D. Arrington PV2 Braedyn Layne Beal PFC Elijah Carlton Braddy PV2 Makayla Mae Burrous PV2 Celeste C.Gutierrez PV2 Aubreonne L.Niemann PV2 Richard Steadman PV2 Belinda R.Thompson PV2 Joshua Devon Wright Class 509-19 SPC Sung Chang Kang-DG

SPC Amadou H.Goudiaby PFC Chris Hartono Halim PV2 Dylan Thomas Kage PFC Ba UI Kweon PFC Varas L.Montesdeoca PV2 Ramses Andres Nunez PV2 Nicholas Michael Olup PV2 Mark Anthony Osorio PFC Christopher P. Vazquez PV2 Jayce A.Quattlebaum PV2 Bryce Dwane Quinn Class 510-19 PFC Alex O.S.Gonzalez - DG SPC Stephen A. Agharese PFC Jephte Cadet PV2 Anthony W.i Carbajal PV2 Lance Russell Gow PV2 Chase Avery Rabon PV2 Justin Bryan Smith PV2 Abraham Villalobos SGT Drew Elliott Way PV2 Lawrence P. Welsh PV2 Leng Yang PV2 Marcus F. Young III

CH-47 Medium Helicopter Repairer (15U)

Class 005-19

PFC Steely S. Carter * - DG PFC Michael Bryson Allen PV2 Michael Joseph Cuellar PFC Jake Patrick Everdell PV2 Zachary P.Haldeman PV2 Randy Thomas Hall SPC Okoye Letrey Harris PV2 Ty Harding Jones PV1 Samuel Adam Mercer PV2 Nathaniel A. Smith SPC Christopher J.Zocher Class 006-19 PV2 Traevon D. Batiste PFC Lawrence Bengough, Ji SPC Luis M.Casablanca PFC Jefferson S.Cavanaugh PV2 Clayton M.Cessna PV2 Dalton Taze Goins PV2 Joseph Nathan Miller PV2 Caleb Austin Smith PV2 Landen Trett Smith PV2 Landon Timothy Smith PV2 Samue Jacob Śmith Class 007-19 PV2 Harrison M.Kluge - DG PV2 Deshay Dean Berry PV2 Stefan James Caswell PFC Coletin Allan Defabio

PV2 Wazeer Hashiem Ferrell PV2 Samuel Ray Hathaway SPC Kevin T.Havworth PV2 Marquis Jamal Mottley PV2 Patrick Lane Poynor PV2 Blake Allen Riedle PV2 Chriostopher D. T. Slagle PV2 Joshua Michael Snyder

Class 505-19 PFC Jeremy W. Lance * - DG SGT Brian E.Burrell-Felton PV2 Jacob Taylor Busby

PV2 Spencer B.Callahan PV2 Levi Franklin Clements PV2 Lawrence G.Dierlam Jr. PV2 Jonathon Taylor Filzen PV2 Andrew E. C.Heins SPC Isaac C. Martinez SPC Jordan Samuel Miller SGT Nicholas David Shupe

UH-60 Helicopter Repairer (15T) Class 017-19

PFC Matthea L. Taylor * - DG PFC Austin Tyler Edgar PFC Henry Michael Garcia PV2 Lizeth C. Garcia Torres SPC Zachary Dean Hoy PFC Derick Q. Mcneal PV2 Evan Michael Mitchell PV2 Oliver Alexander Rice PV2 Dalton M.Robinson PV2 Keith A.S. Nicolas Santos PFC Tiffany Heather Stafford SPC Harrison Kiwhang Yi Class 018-19 SPC Luis A. Cervantes * - DG PV1 Nathan D. Bigelow PV2 Evan Tyler Brown PV2 Luke Giovanni Cozza PV2 Cody Warren Schaefer PV2 Mitchell Cutis Shea PV2 Chase Franklin Staggs PV2 Zachariah Scott Taylor PV2 Maxwell T.Wilson PFC Colin Ronald Wingfield

Class 509-19

SPC Kyle E. Voeltz * - DG PFC Jeremiah Mikal Davis PFC Dillon Bruce Fox PV2 Tyler Gene Gaddis PV2 Peter Thomas Gilrov PV2 Weston Chege Gitau PV2 Christian J. Graham PV2 Tyler Andrew Gresso PV2 Evan Robert Mark PV2 Jordan Matthew Smith PV2 Clay Treasure Schilling PV2 Michael T. Walldez Class 019-19 SPC Haley M.Porter * - DG PV2 Levi Tyler Daffron SGT Sheila Apriil Hatala PV2 Andrew S.Jeanes SPC Benjamin J. Martell PV2 Matthew T. Myers PV2 Alexis Lynn Norris PFCEdgardoL.Ortizrodriguez PFC Jairo Lenin Rodriguez SPC Jason Omar Roman SPC Jordan Lee Warbington Class 020-19 PV2 Noah G. Kruse * - DG PV2 Jayson Mitchell Davis PFC Cole R. Greathouse PFC Tanner Lee Guidry SPC Nicholas C. Howland PV2 Cameron Michael Littell PV2 Esteban Maldonado PV2 Daniel C. Monton PV2 Luis Manuel Pizarro PV2 Michael James Ray PV2 Kyle Andrew Thompson Class 510-19 PFC Sloan T. Kraus * - DG PV2 Justin Dewayne Alley PFC Zachery Allen Felbab PV2 Zavery Joseph Galba PFC Tanner Lee Guidry PV2 Nicholas Taylor Holland PV2 Mekhdi K. Makkhella PFC Brian Franklin Varner PV2 Patrick Francis Weigel PV2 Justus N. Wilkinson PV2 James Michael Wolfe Class 021-19 A1C Jacob T. Baer - DG A1C Hunter Garcia Amn Zachary Ryan Hain A1C Tyler Joseph Jass A1C Devin Michael Newton Sra Craig Joseph Rose A1C Travis J. Schweighart A1C Tyler Scott Simmons A1C Casey Marshall Sims Amn Simon Dean Toney Class 022-19 PFC Kavonn D. Thomas * - DG PFC Ethan Thomas Bulford PV2 Kristopher A. Fletcher SPC Biplop Gauli PV2 Mark Lorenzo Graves PFC Christian Cole Henry PV2 Austin Dakota Johnson PV2 Jeremy S.Klimowicz, Jr PV2 Corey Lee Sommers PV2 Tim David Thompson SPC Reinaldo Cruz Valle Class 511-19

PFC Dylan S. St John * -DG PV2 Jordan Tyler Lee PV2 Adam Daniel Lewis

PV2 Aaron Randell Lucas PV2 Arturo Melanoocampo SPC Taylor James Miller PV2 Michael Thomas Novak PV2 Ademir Pavao Filho PV2 Eduardo Rojas PV2 Ryan Matthew Smith PV2 William A. Smith Class 023-19 PFC Justin T. Gates * - DG PV1 Toua Chang SPC Joshua Lee Crites PV1 Lynsee J. Dempsey SPC Adam M. Henderson PV2 Joel Eskild Korsholm SGT Andrew Michael Luther PV2 Amber Lee Mcgarvie PV2 Bryson R. T. Mills SPC Samantha L. Pacheco PV1 Francheska M.V.Camacho Class 024-19 PV2 Zachary T. Brishaber * - DG PV2 James C.Canada, III PV2 Zachary Alex Moore PV2 Trystan Jacob Peace PV2 Steven L. Poindexter PV2 Colton Jacob Proctor SPC Eric Rathnayake PV2 Phillip A. Rodriguez PFC Martinez Edwin Roman PFC Dorian B. Zermeno Aircraft Powerplant Repairer (15B) Class 003-19

SPC Ge Dai * - DG PV2 Christopher T. Brightman PV2 Darwin Alexis Buezo PV2 Jacob Nicholas Carlson SPC Dong Ryool Choi PV2 Zachary J. Funston PV2 Deshay Dean Berry PV2 Stefan James Caswell PFC Coletin Allan Defabio PV2 Wazeer Hashiem Ferrell PV2 Samuel Ray Hathaway SPC Kevin T. Hayworth PV2 Harrison Mitchell Kluge PV2 Marquis Jamal Mottley PV2 Patrick Lane Poynor PV2 Blake Allen Riedle PV2 Chriostopher D.T. Slagle PV2 Joshua Michael Snyder SPC Amber Noel Hulen PV2 Nicholas Joseph Lucio PV2 William Dean Mclean PV2 Colton Lynn Northrup PV2 Vignesh Mohan SPC Shyam Mutha SPC Kihwang Nam Class 501-19 PV2 Josue Remy * - DG SPC Lei Qin PV2 Tyler John Reidy PV2 Carson A.Rippentrop PV2 Otaber Ruzimamatov PFC John Patrick Tietz PV2 Tyler Ryan Williams PV2 Andrew Jacob Wilson

Aircraft Powertrain Repairer (15D) Class 002-19

PV2Thomas B. Childress * - DG PV2 Idris Joel Bailey PV2 Matthew Clark Bowen



People On The Move

PV2 Logan Garrett Bruce PV2 Joseph Hunter Brunner PV2 Raine Yi Mei Brysostom PV2 Nathan Correa Villafan PV2 Orlando L.Figueroa PV2 Zayk E. Forrester PV2 Miguel A. Garcia PV2 Travis Allen Hopkins PFC ZacharyHuber-Tomlinsor PV2 Sean Luke Johnston PFC Byeong Hyeon Kim PV2 Wesley Daniel Lones Class 502-19

PV2 Cody A. Stokes * - DG PV2 Zane Madison Kimel PV2 Zackery Scott Lanier PV2 Jordan W. Lowrimore PV2 Patrick Collins Malcolm PV2 Nicolas G. Matthews PFC Adam Lee Morton PV2 Jorge Alfredo Padilla PV2 Robert C. Ramos PV2 Nathan Paul Smith

Aircraft Electrician (15F) Class 003-19

PV2 Owen C.Bame * - DG PV2 Anthony Tyler Bilyeu PV2 Kenneth J. Cassidy PV2 Travis Lee Crawford SPC Mathura Prasad Dahal PV2 Tyler Ky Dahlke PFC Aaron John Daniels

SPC Era Maskey Class 004-19

PV2 Richard L. Everett Jr. * - DG SSG Stephen E. Brett Jr. PV2 Soto Eliud Delgado PV2 Curtis William Haby PV2 Dustin E. Haggans SPC Patrick Cody Kidson Class 502-19

PV2 Nicholas Lynn Manor PV2 Tyler James Meadows PV2 Christopher J. Melendy PV2 Luis Enrique Palma PV2 Rodolso Pena Jr. PV2 Christopher G. Quiroga PV2 Quinton Michael Void

Aircraft Pnedraulics Repairer (15H) Class 004-19

PV2 Gayle A Philp - DG PV2 Jose M. Barajasramirez PFC Andrew Harrison Exum PV2 Nathaniel Cage Hardy PV2 Xavier Jose Sena PV2 Joseph Kevin Tan

Aircraft Structural Repairer (15G) Class 003-19

PFCKatherine N. Rodriguez - DG PV2 Maverick J. Aivaliotis SPC Justin Robert Barros PV2 Robert Donald Brown PV2 Jessica Maria Galleges PV2 Abraxas K. Haole SPC Akorede A. Ibirogba PFC Tristan M. Mcgarry PV2 Chandler L. Melcher PFC Michael Murry PV2 Quintin Patrick Obrien PFC Carl Mendel Shoup

PV2 Brian S.Smart-Mckerlie PV2 Austin Wayne Smith Class 503-19 PV2 Wendell J. Woods * - DG PV2 Leyton M. Analla PV2 Brian Robert Power PV2 David H. Summers PFC Randy Tejada Tejada PV2 Richard Ryan Tilbanie PV2 Andrew Paul Van Horn PV2 John Glennon Werner PV2 Kody Anthony Willard

Avionic Repairer (15N)

PV2 William A. Bennett * - DO PV2 Abel Ccipriano Anaya SPC Jesus Darren Deleón SGT Williamspencer K. Ellis SPC Aidan E. Murphy PV2 James Damen Sebree Class 023-18 PV2 Hakeem O. Harris * - DG

PV2 Abigail Rose Flores PV2 Ana Cecilia Flores PFC Emily Rose Hoffman PFC Brandon Terez Knight PV2 Kaitlyn Nicole Long PV2 Rosanna C. Young Class 504-18

PFC Ryan J. Fitzpatrick * - DG PV2 Cody Michael Brashear PV2 Carson Colliton Dean PFC Matthew N. Gaeta PV2 Dericl Milo Gross PFC Zachary Ryan Harper PV2 Maverick Wayne Jarrell PV2 Ousmane M.Samake

Air Traffic Control Operator (15Q) Class 19-005

PV1 Kaihem A. S. Louis PV2 Kemonei C.Butler PV2 Jefferson R. Perez PV2 Marquez R. Lemon PFC Geoffery R.Whittington PV2 Kevin Anibal Perez PV2 Maxwell D. Meloche PV2 Sidney Michelle Slay PV2 Juan F. Sanchez PV2 Tyler Ernest Adorno PV2 Angel Unique Chavez Class 19-006 PV1 Weitzel Alli Marie

PV1 Cook Justin Reese PFC Bissen Sarah Elizabeth PV1 Baumann T. Michael PVT Ewing H. Constance PV2 Jackson Mehki Hessein PFC Remer Kevin Andrew PV1 Valencia Victor Jose PV1 Le Hung Vy PV1 King Isreal Elizabeth

Aviation Operations Specialist (15P) Class 19-016

PVT Brett Stewart SPC Mitchell Fowler PFC Shawn Fluhr SPC Dahlia Large PFC Mary Rigatuso PV2 Carolyn George PFC Katlin Burnett PV2 Asjah Jenkins SPC Richard Montgomery PV2 Domingue Millett SPC Chad Mcgaha PV2 Alexandria Futrell

UNMANNED AIRCRAFT SYSTEMS (UAS) GRADUATIONS

WARRANT OFFICER

AAAA congratulates the following Army graduates of the Tactical Unmanned Aircraft Systems Operations Warrant Officer Technician Shadow UAS Operator Course, MOS 150U, at For Huachuca, AZ.

Tactical Unmanned Aircraft Systems Operations Warrant Officer Technician Course

6 Graduates, 05 Apr 2019 WO1 Dustin M. Rice-DHG W01 Travis J. Bernas W01 Oscar O. Diaz WO1 Francisco C. Hernandez W01 David E. Mills W01 Mark L. YinBaker

UAS REPAIRER

AAAA congratulates the following Army graduates of the Unmanned Aircraft Systems Repairer Course, MOS 15E, at Fort Huachuca, AZ.

Shadow UAS Repairer Course 14 Graduates, 02 Apr

2019 PVT Brady R. Hanson SGT David P. Knaak SPC Daniel J. Schlack PFC Deonson T. Leatimua PFC Killian Y. Pignault PV2 Preston J. Behrmann PV2 Charles E. Lewis PV2 Adam D. Worful PVT Brendan T. Busby PVT Angel A. Macias PVT Michael B. Mesngon PVT James W. Sanford PVT Devon R. Terrell PVT Matthew E. Watts 9 Graduates, 15 Apr 2019 SPC Brandon C. Baker PFC Dalton T. Hollowell PV2 Victor H. Castillo PV2 Braxton A. Dowell PV2 Adrian A. Herrera PV2 Ethan G. Olive PV2 Luke W. Rassett PV2 Dhylan K. Spano PVT Sarah J. Adams

Gray Eagle UAS **Repairer Course** 13 Graduates, 15 Apr

2019 PFC Garrett T. Gilkison - DHG PV2 Donald K. Ernestburg - HG PV2 Ernest V. Abis PV2 Andrew R Bales PV2 Daniel T. Jones PV2 Clvde D. Ladd

PV2 Max A. Provine PV2 Douglas A. Schoenling PV2 David A. Perez PV2 Jonluke Torres PV2 Lance D. Vann PVT Brent C. Gray PVT Kai M. Key

UAS OPERATOR

AAAA congratulates the following Army graduates of the Unmanned Aircraft Systems Operator Course, MOS 15W, at Fort Huachuca, AZ.

Course

40 Graduates, 19 Apr 2019 PV2 Tyler E. Simpson – DHG

PVT Jonathan K. Freese – HG SGT David J. Bittell SPC Patrick M. Egan SPC Kenneth D. Sierra PFC Brett A. Beard PFC Marcus E. Dodson PFC Austin P. Fandey PFC Vincent A. Holbrook PFC Christopher H. Kon PFC Michael D. Matta PFC Andrew G. Pendleton PFC Aidan G. Quinn PFC Jacob W. Smith PFC Garrett M. Wilson PV2 Benjamin P. Aretha PV2 Nicholas J. Barrett PV2 William A. BatesSkelly PV2 Connor P. Brockman PV2 Samuel A. Cassis PV2 Christian W. Harris PV2 Christopher P. Harrop PV2 Noah T. Heath PV2 Kevin D. Janish PV2 Nathan C. Kurz PV2 Christian A. Labar PV2 Dillan B. Ledford PV2 Bobby Lopez PV2 Jesus Luna-Hernandez PV2 Jose D. M. Sanchez PV2 Austin S. McDonald PV2 Jordan P. Oliver PV2 Eduardo D. Pacheco PV2 Aaron J. Temples PVT Jimmy L. Edwards PVT Colby J. Harris PVT Joshua G. Herbert PVT Michael V. Millard PVT Daniel C. Provost PVT Chase M. Williams

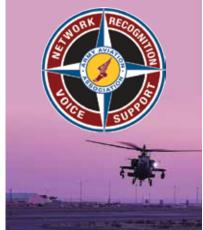
Gray Eagle UAS Operator Course

9 Graduates, 29 Feb 2019 SPC Nicolaus Trivelpiece-DHG SGT Phillip E. Dunegan - HG SGT Austin R. Gardner SGT Alejandro Garrido SGT Christopher L. Reeves SPC Christian Diligencia SPC Javier M. Perez PV2 Jadon D. Bell PV2 Randall H. Hammarsten

DHG = Distinguished Honor Graduate HG = Honor Graduate

= AAAA Member

Save the Dates



Luther Jones

Luther G. Jones Army Aviation Depot Forum August 20-21, 2019 Corpus Christi, TX

ASE

Aircraft Survivability Equipment Symposium November 18-19, 2019 Huntsville, AL

Cribbins

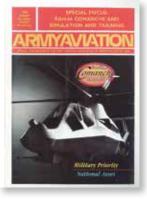
Joseph P. Cribbins Aviation Product Sustainment Symposium November 20-21, 2019 Huntsville, AL

Sponsored by AAAA



Art's Attic is a look back each issue at 25 and 50 years ago to see what was going on in ARMY AVIATION Magazine. Art Kesten is our founder and first publisher from 1953 to 1987. He is also the founder of the AAAA in 1957 and served as its Executive Vice President. Each month contributing editor Mark Albertson will select a few key items from each historic issue. The cartoon, right, was created back in 1953 by LT Joe Gayhart, a friend of Art's and an Army Aviator, showing the chaos of his apartment-office in New York City where it all began.





25 Years Ago June 30, 1994

Briefings

May 23, The White House: Posthumous Medals of Honor were accorded to a pair of valorous American soldiers killed in action Mogadishu, Somalia. The in October 3, 1993 action in question

saw to the tragic deaths of MSG Gary I. Gordon, 33, and SCF Randall D. Shughart, 35, members of the U.S. Army Special Operations Command (USASOC), Fort Bragg, NC. MSG Gordon's medal was presented to his widow, Mrs. Carmen R. Gordon; while SFC Shughart's medal was accepted by his widow, Mrs. Stephanie A. Shughart. The above are the first Medals of Honor accorded

since the Vietnam War.

Briefings

Moving rapidly from design phase to prototype is the Boeing-Sikorsky RAH-66 Comanche. At the Stratford,



Connecticut Sikorsky plant, the prototype's forward fuselage structure is already fifty percent complete; and, has been moved to the second assembly stage towards completion. Meanwhile the Boeing MEP Systems Integration Laboratory has successfully amalgamated the mission computer cluster racks, power supplies, backplanes and data processing modules. The first flight of a completed prototype is scheduled for 1995.

Fort Campbell, Kentucky, November 5, 1993



Guest speaker, Colonel Robert Dees (left), Commander, 3rd Brigade, 101st Airborne Division, was presented with an Order of St. Michael Bronze Award. Presenter (right), Commander, 7th Battalion, 101st Aviation Regiment, Lieutenant Colonel Rodger Matthews.



50 Years Ago June 30, 1969

In Memoriam: General William B. Bunker

General William B. Bunker passed away on June 5, 1969, in the Rader Clinic, Fort Myer, Maryland, as a result of a heart attack. He is survived by his

wife, Crystal, and a son, Paul D. Bunker, III, an employee of the U.S. Army Aviation Systems Command, St. Louis, Missouri, plus three grandchildren. General Bunker was the son of a Regular Army officer, and was born September 30, 1910, Fort Slocum, New York. He was commissioned into the Cavalry, upon graduation from the U.S. Military Academy in 1934. Two years later he transferred to the Engineer Corps and attended the Massachusetts Institute of Technology, where he earned a degree in Master of



Science Engineering. General Bunker received an array of military awards: The Distinguished Service Medal, Legion of Merit with two Oak Leaf Clusters, Army Commendation Medal, American Defense Service Medal, American Campaign Medal, World War II Victory Medal, Army Occupation Medal (Germany), National Defense Medal, Berlin Airlift Device, Foreign Service Medal and the Unit-



ed Nations Service Medal. General Bunker was a Past President of the American Helicopter Society, Associate Fellow of the American Institute of Aeronautics and Astronau-

tics, member of the American Society of Civil Engineers, President of the Armed Forces Management Association and a member of the American Management Association and AUSA. Lastly ... General Bunker was a charter member of AAAA and proved instrumental in the formation of AAAA's Lindbergh Chapter in St. Louis.



The Army Aviation Hall of Fame, sponsored by the Army Aviation Association of America, Inc., recognizes those individuals who have made an outstanding contribution to Army Aviation.

The actual Hall of Fame is located in the Army Aviation Museum, Fort Rucker, Ala.

The deadline for nominations for the 2021 induction is June 1, 2020

Contact the AAAA National Office for details and nomination forms at (203) 268-2450 or visit www.quad-a.org

Army Aviation Hall of Fame

Chief Warrant Officer Four Raymond A. Frank

Army Aviation Hall of Fame 1995 Induction

W4 Raymond A. Frank epitomized the spirit of the Army Aviation Warrant Officer. Enlisting in the Army at the age of 17, he served three tours in RVN both as a ground combatant and helicopter door gunner. Attending flight school in 1974, he served in a wide variety of assignments including pilot, instructor pilot,



standardization instructor, maintenance officer, and operations officer. His special place in the annals of Army Aviation, however, was earned as a result of his skill and enthusiasm as a pilot and his indomitable spirit as a patriot, one for whom duty, honor and country were a way of life and not merely a slogan.

He was one of the first to become an instructor in air-to-air tactics and his contributions in the development for future Comanche ACM capabilities continue to shape both hardware and doctrine.

In 1990, he received a Broken Wing Award as a result of his superb handling of a night mission mechanical failure in an MH-60. His skill and composure saved the lives of eight soldiers; however, he was left with severely fractured vertebrae and a shattered knee. Overcoming the medical odds that he would never fly again he was assigned as a Night Stalker in TF 160 in 1990. During this period, he achieved full mission qualification, Standardization Instructor Pilot and Joint Mission Planner status. In August 1993, he deployed to Somalia with Joint Task Force Ranger.

CW4 Frank deployed as a member of a flight lead crew whose responsibility it was to plan and lead special operations combat assaults. He conducted seven highly successful assaults; many during daylight, deep in enemy-territory. He provided great leadership to the aviators and was particularly respected for his advice on the employment of armed and assault helicopters in an urban environment. When his teammate was shot down, he was called for assistance.

While providing protective fires, his aircraft was hit by a rocket propelled grenade (RPG). Realizing that the tail rotor had separated, he autorotated to a safe landing in the city. Surviving the crash with tremendous injury to his back he egressed from the helicopter and assumed a fighting position in the urban downtown sprawl of Mogadishu known as the Black Sea. He was killed in action on October 3, 1993 while defending his fellow Night Stalkers and ground force members of TF Ranger in the vicinity of his crashed MH-60 SOF assault helicopter. One member, CW3 Michael Durant, was taken POW and eventually released. CW4 Frank received the Silver Star for his gallantry at the crash site.

The most deserving recognition for Ray Frank is to be memorialized as a member of the AAAA Hall of Fame; for truly in death, he will continue to serve as an inspiration to all Army aviators into the 21st century and beyond.

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