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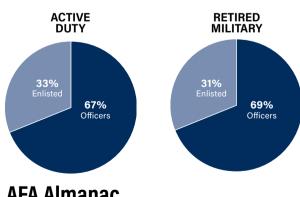
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USAF's heightened focus on speed is making long-duration hypersonic flight a reality. This artist's rendering shows Darpa's HTV-2, a prototype reusable, rapid-strike weapon system, re-entering the atmosphere.

THE AIR FORCE FEELS THE NEED FOR SPEED

USAF WANTS FAST WEAPONS, FAST AIRCRAFT, AND FAST ACQUISITION. FAST.

he Air Force could have its first hypersonic weapon within two years, demonstrating a faster acquisition and development process the Air Force hopes will accelerate its modernization push on many levels.

Speed—both hypersonics and faster technology and program development—were core to the messages Air Force leaders took to the force during AFA's Air, Space & Cyber Conference in September.

The development strategy for Next Generation Air Dominance (NGAD) will emphasize prototyping and experimentation rather than rapidly becoming a large-scale program of record, they reported.

To accelerate innovation, Air Force Acquistion chief William Roper said, the Air Force is also focusing on finding better ways to maintain and sustain its platforms, forming a Rapid Sustainment Office modeled on the service's Rapid Capabilities Office, which aims to rush new technologies into use. The new organization will apply predictive analytics and other advanced technologies to the nuts and bolts work of keeping systems operational. Sustainment has long taken a back seat to new combat technologies in the competition for headlines, but sustainment is "where 70 percent of our budget is," Roper said.

The potential for savings is significant. Roper said the new office will "pay for itself" and will be disbanded after two years if it doesn't; an unlikely scenario, he said.

Deputy Defense Secretary Patrick M. Shanahan, in a keynote ad-

By John A. Tirpak, Editorial Director





William Roper, assistant secretary of the Air Force for acquisition, technology, and logistics, said USAF is out front on developing hypersonics and all the services are working together to bring the capability to fruition. dress at the conference, said the commercial aircraft industry is far ahead of the US military in understanding aircraft sustainment and wringing savings out of it. The military should be "humble" and learn from "those who do it well." Shanahan said the military should "rip off and deploy the tools and systems" aircraft maintainers need to get the job done faster and at less cost.

According to Roper, the Hypersonic Conventional Strike Weapon (HCSW, pronounced "Hacksaw") could be operational as soon as December 2020. It's "a fact that we can compress the development into two years," he said, although admitting that dates could slip because of the need to "test aggressively."

The HCSW will then follow a "spiral development" plan, Roper said.

"You'll go into some low rate of production, then keep spiraling the technology until you get enough bells and whistles on the weapon and you say, 'That's the one I want to buy,' " he explained. Too many programs

have faltered in the past because the service attempted to reach the objective capability in the initial version. That resulting "concurrent risk" slowed development and jacked up cost.

"We're trying not to do this" with hypersonics, Roper said.

The HCSW is only one of at least four hypersonic projects USAF is pursuing, including boost-glide munitions and air-breathing missiles with longer range and maneuverability.

Among the US Armed Forces, the Air Force is "out of the starting gates the fastest" on hypersonics and will likely be the first to have an operational weapon, Roper said. The services are working together, though. Air Force Secretary Heather Wilson said cooperation with the Army and Navy has already "saved 10 years" of development effort. The services are sharing effort on overlapping technologies, TSgt. Jordon Jones (left), SSgt. Charles White, and SrA. Jaceb Brammer (right) inspect an F-16 at Misawa AB, Japan. USAF is seeking better ways to maintain and sustain its platforms.



while leaving each free to concentrate on their unique launch requirements.

They have agreed "to use the best technology, no matter where it comes from; go fast, share results, and build harmony," Wilson said.

Roper said the HCSW and test models from the other services would likely be test-launched from B-52s.

Roper came to his USAF acquisition post from the Pentagon's Strategic Capabilities Office (SCO), where he was the founding director, and the Air Force's HCSW flows from work done there. Making use of that body of work has allowed the hypersonics effort to be accelerated, he told reporters, saying he's handed the program off to himself in his new job.

Roper also said the USAF management team has set a goal to take "a hundred years" out of acquisition programs—and has already cut 56 years from program schedules. "I think we'll make it," he said of the 100-year objective. It's happening "much faster than I was expecting."

By focusing only on "the things that really matter" and on the 90 percent solution, rather than perfection, programs can move forward much more quickly.

But Roper is still aiming to cut the time to issue contracts. "Two months is not fast enough" for deals, he said. He'd like to complete simple negotiations and agreements in "a single day." Doing so is especially important with startup companies working on innovative new concepts; they don't have the cash to wait months for the government to issue a contract. Procedures that would require only short, one- or two-page proposals, a video pitch, and then a live pitch could ultimately result in on-the-spot contract offers.

Even if those startups don't survive, or are bought up by bigger companies, the people there will have been exposed to the Air Force and its needs, and that will likely pay dividends later, he said.

To keep things on track, Roper said all programs will be given a

An F-35 test aircraft releases a missile during a live-fire test over the Gulf of Mexico. USAF is pursuing a goal to speed up acquisition. time limit, and if program managers want even "an extra day, week, or month" they'll have to "fight for it." Industry embraces this approach and already has the mindset that "we have to make this quarter count; we have to make this year count."

The bottom line, Roper said, is: The US military will win the technology battle with its peer competitors, "as long as [we] don't get in our own way."

Nonetheless, Roper said he's encouraging program managers to take risks. The Air Force must be "willing to fail" as it experiments with new ideas—however it must not accept failure on major projects like the Ground Based Strategic Deterrent nuclear missile, which will require decades of sustainment and will benefit from taking extra time "at the front end" to reduce risk and cost later.

The Air Force has acknowledged that it needs to up its game in air superiority if it is to remain dominant in the 2030 time frame, which means investing in new capabilities now. Roper said the NGAD can "learn from the SCO approach, which is, you should start with what you have."

Lt. Gen. Arnold W. Bunch Jr., the Air Force's top uniformed acquisition leader, told reporters "we need to invest in multiple areas of technology" to map out the NGAD strategy.

"It was not set aside that it was going to be a specific answer," he noted, but likely a combination of platforms, technologies, and networking. Areas of experiment will include "how we [do] data decision, how we do defeating agile, intelligent targets," and the results will help determine "what we may be able to invest in" with regard to new products as well as the upgrade of older systems.

> "We are looking at advancing key technologies that I won't go into," Bunch said. "We've got money laid in" for experiments and prototyping. The results of those will drive investments, he said.

Roper noted the Air Force wants a "balance between these polar extremes ... which is exquisite capability on platforms versus a system of systems. ... The answer isn't one or the other, we want the best of both."

This portfolio approach will not be a "traditional, top-down acquisition process," he said, which "has not worked well for highly tech-driven programs." The aim will be to continue to limit time lines and press ahead with the technologies that mature within that time line. Roper said USAF will be "very mindful that when you're trying to target multiple technologies, probably not all of them are going to succeed."

Air Force officials say the main NGAD technologies are likely to include: extremely low observability air-

craft; directed-energy weapons; small, long-range multi-sensor munitions; new variable-cycle longer-range/higher-thrust engines; and augmented and artificial intelligence systems.

Bunch and Roper said they will have a role in moving the Air Force toward a capacity of 386 wings—if that level is approved by Congress and funded—but will chiefly take the job of seeing how existing and future production lines can be adjusted efficiently.

"It'll be our job to present the best acquisition approach, and that will mean us going through production lines, and [asking], 'can we go up or down? How can we change within current contracts that we have?' " Roper explained. "We will really have to do the rubber hitting the road ... when we understand what budget to target."



Patrick Shanahan, deputy secretary of defense, in his keynote address said the commercial aircraft industry is far ahead of USAF in understanding how to wring costs from aircraft sustainment.

Lt. Gen. Arnold Bunch Jr., USAF's top uniformed acquisition official, said USAF is taking a "portfolio approach" to future air dominance.

Photos: Mike Tsukamoto/staff



A "vicious harmony" of activity across domains multiplies the dilemmas faced by adversaries.

ONE IF BY LAND, TWO IF BY SEA, THREE IF BY AIR, FOUR IF BY SPACE, FIVE IF BY CYBER

MULTI-DOMAIN WARFARE TURNS UP THE HEAT ON THE ENEMY.

he Air Force is looking to blend advanced technology with a new operational construct to provide more options to combatant commanders and speed up the decision-making process. The goal is to ensure the service can take advantage of each of the domains to create a "vicious harmony" and "produce multiple dilemmas for our adversaries," said Air Force Chief of Staff Gen. David L. Goldfein.

Throughout his keynote address at AFA's Air, Space & Cyber Conference in September, Goldfein repeatedly referenced Henry Wadsworth Longfellow's famous poem about Paul Revere's midnight ride to warn colonist of the British plan to seize weapons at Concord in 1775. The redcoats, he noted, "could either march across the land bridge" from Boston to Concord, "or row across the Charles River."

Knowing this, the colonists developed a "crude but effective" command and control architecture, hanging one lantern in the Old North Church tower if the British were advancing by land and "two, if by sea," said Goldfein. By Amy McCullough, News Editor



But what if the British had been able to split their forces and advance from both land and sea? Goldfein asked. Adapting the poem for modern-day warfare, he spelled out how that might work in the future:

"One if by land, two if by sea, three if by air, four if by space, five if by cyber—more when we converge effects from multiple domains to achieve military objectives," he said. Adding dimensions adds com-

plexities and stretches the enemy thinner with each potential option. "We want our adversaries in the lantern-buying business," he said.

The Air Force has operated in mostly uncontested environments for the past three decades. Now the US is entering a new era of great power competition, the National Defense Strategy argues requiring a more robust set of capabili

Strategy argues, requiring a more robust set of capabilities. In fact, Deputy Defense Secretary Patrick M. Shanah-

an said at the conference that while the US was fighting insurgents in the Middle East and the Air Force was operating at will overhead, adversaries studied American operations and "built systems and doctrine to thwart" US capabilities.

"The character of war is changing rapidly, dangerously blurring the line between competition and combat," Shanahan said. "Adversaries increasingly leverage media and hackers instead of fighter jets to achieve their ends."

USAF has long enjoyed air superiority, but space and cyberspace are more contested domains.

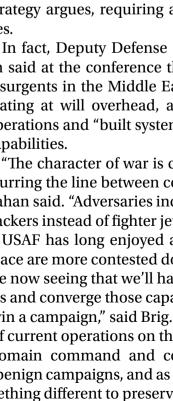
"We're now seeing that we'll have to fight in all three of those domains and converge those capabilities on an adversary in order to win a campaign," said Brig. Gen. B. Chance Saltzman, di-

rector of current operations on the Air Staff and the head of Goldfein's multi-domain command and control initiative. "These have been largely benign campaigns, and as soon as that's not the case we have to do something different to preserve" USAF superiority.

That's what Multi-Domain Command and Control (MDC2) is all about. The Air Force will be called on to project combat power in air, space, and cyber, or a combination of the three, Goldfein said. That USAFE-based F-15Cs rapidly deployed when the call came to strike targets in Syria, and the Eagles worked across domains to make the operation a success.



Deputy Defense Secretary Patrick Shanahan said adversaries have studied US capabilities and built systems to thwart them.





Chief of Staff David Goldfein said the Air Force must project combat power in air, space, and cyber—or a combination of the three.



A B-1B Lancer refuels during an attack on Syrian targets in response to Syria's use of chemical weapons. could mean sending a single Air Force Reserve WC-130 into the eye of a hurricane or "the rapid buildup of new bases across Eastern Europe to execute expeditionary combat operations to halt enemy activity in support of—and in combination with—our NATO allies."

Most often, he added, it will mean "offering a combination of tailored forces that go forward, with forces that fight from the homeland or provide reachback capabilities that support the fight."

Multi-Domain in Action

The April attack on chemical weapons facilities in Syria was one of the first opportunities to deploy multi-domain operations since Goldfein tasked Saltzman with studying the concept.

In the early morning hours of April 14 (local time), the United States, United Kingdom, and French forces launched an attack inside Syria,

Infrastructure Key to Successful Multi-Domain Operations

—Amy McCullough

The inaugural Doolittle Wargame series launching in November will test various command and control architectures to see which ones best leverage information and support that result in the fastest, most effective decisions for multi-domain operations.

Infrastructure is critical to successful multi-domain ops, and getting the C2 architecture right is a "stellar" undertaking, said Brig. Gen. B. Chance Saltzman, director of current operations and head of the Air Force's multi-domain command and control initiative.

Speaking before a Sept. 26 Mitchell Institute for Aerospace Studies event in Washington, D.C., Saltzman compared the Motorola DynaTAC 8000X—the world's first cell phone, which weighed 1.75 pounds and was 13 inches tall—with a modern iPhone. Even if he'd had an iPhone in 1985, "it would be just as effective as the phone on the left: You could make phone calls with it," Saltzman said. That's because without the Internet—the necessary infrastructure—iPhone apps, text messaging, and data features are useless.



Without the KC-135s from RAF Mildenhall, UK, the April operation in Syria would have been scrubbed, Air Force Secretary Heather Wilson said.

"Once we get the infrastructure right, I'm convinced that the applications will be much faster in development and integration," Saltzman said, acknowledging that will require a significant culture shift inside the Air Force. Everything from how the service works with Congress, industry, and academia, to the way it conducts operations will have to change, he said, and all of those things must happen in parallel.

The Air Force needs to give industry and academia the "basic principles and basic vision" for how it wants to conduct multi-domain operations—and then let them work independently to define the best way to make that happen.

"There's a struggle here. This is that cultural shift," he said. "If we're sitting around waiting for that master conops, the master list of requirements that define MDC2, I'm telling you it's not coming. It's not coming because I don't think that's the best way to structure all the disparate efforts that have to happen.

"I would much rather focus on standards for the basic foundational work so everybody who is working on the different disparate aspects knows how their project will fit in," Saltzman continued. "Then we have to figure out what the right contracting mechanisms are, what the right lab work is, how you go from experiments and technology demonstrations to operationalizing this. What does 'program of record' mean in this environment?"

Rather than control everything, he argued, the Air Force will get further, faster if it seeds the creative forces around it, rather than defines parameters too concretely. "The short answer is we don't want to control too much," he said. "We want to have the grand vision so everybody can contribute the way they see works best."

striking Syrian chemical weapons research and storage facilities with 105 varying missiles. It was a response to Syrian leader Bashar Assad's decision to use chemical weapons on his own people.

Just over 24 hours after President Donald J. Trump authorized the strike and forces were notified, F-15Cs assigned to US Air Forces in Europe had deployed to an unnamed staging location in Europe. The Eagles were getting ready to deploy to Morocco for an African Lion exercise. When the majority of the aircraft were redirected to support the Syria operation, they provided defensive and offensive counterair outside of Syrian airspace, supporting other assets in theater, according to a USAF officer who participated in the mission.

"It was a very rapid deployment," he said. "We have a rapid Eagle concept. We trained to that once before. If we get notification to something we can configure our aircraft with live munitions and get out the door quickly." But it didn't hurt that the unit was fixing to deploy anyway that helped speed up the operation.

One of the challenges, however, was that the African Lion mission was still a go. "There were a few days we had members of the squadron in five different countries," said the officer, whom the Air Force declined to name for operational security reasons. Some members of the squadron went on to Africa, others were at the staging location, some were still at home, and some airmen were operating as liaisons inside the combined air operations center in Germany, he said.

"The stressor part was more starting the airplane without any updated intelligence of what actually happened," said the pilot, who was slotted to "be the end of the coverage." It wasn't until he met up with the first wave of fighters over the Adriatic Sea that he was able to get an updated intelligence report over the radio.

The USAFE-based F-15s and F-16s did not launch strikes, but they did provide airborne surveillance around the Mediterranean Sea. Meanwhile, two USAF B-1B Lancers from the 34th Expeditionary Bomb Squadron at Al Udeid AB, Qatar, escorted by a US Marine Corps E/A-6B Prowler, dropped 19 Joint Air-to-Surface Missiles over Syria, hitting the Barzeh Research and Development Center near Damascus. The US Navy struck with 59 Tomahawk cruise missiles.

F-22 Raptors also "played an integral role" in the strikes, Air Force Central command spokesman Capt. Mark Graff told *Air Force Magazine* at the time. The fast and stealthy F-22s, he said, were "the only airframe suited to operate inside the Syrian integrated air defense systems, offering an option with which to neutralize threats to our forces and installations in the region and provide protective air support for US, coalition, and partners on the ground in Syria."

The night of the attack, Chairman of the Joint Chiefs Gen. Joseph F. Dunford Jr. had said there was "some initial surface-to-air-missile activity from the Syrian regime," even though the US had "specifically identified these targets to mitigate the risk of Russian forces being involved." The pilots involved still weren't sure what kind of response they would face.

Throughout the course of the mission, the Eagles worked closely with USAF F-16s and other coalition aircraft, providing 12 hours of consistent over watch. The fighters took turns refueling from KC-135s assigned to the 100th Air Refueling Wing from RAF Mildenhall, England, which were in the first wave of aircraft to launch.

Despite weather conditions that were "significantly below minimums" that night, the wing's tankers took off. Visibility was so poor, in fact, they "needed a follow-me truck to find the runway's centerline," said Air Force Secretary Heather Wilson during her keynote address at the conference. But, "If they didn't go, the mission would have to be scrubbed," she added. "They relied on their training [and] confidence in the maintenance and equipment to push the throttles forward."

The risk of conflict with Russia that night was high. Pentagon spokeswoman Dana White said Russian propagandists stepped up activity that night by "2,000 percent" in the wake of the strikes. To mitigate the risk of conflict, the US and its allies deployed assets to several locations to create multiple dilemmas for potential attackers—exactly what the evolving MDC2 strategy calls for.

"I am excited and optimistic about our future," Goldfein said. "I am confident that the American people will hear the alarm as articulated in the National Defense Strategy. That ... we will once again choose to defend our great nation, just as we have throughout our history, since that fateful night in 1775."

He paused and added: "They are coming, and we have from this moment forward to get ready. Fight's on."

SETTING SIGHTS ON A BIGGER/AIR FORCE

Future conflicts might require many small USAF units to deploy to austere airfields, taking only support equipment and people required to conduct operations. A C-130 from the 746th Expeditionary Airlift Squadron unloads equipment at an undisclosed location in Syria.

"THE FORCE WE NEED:" 386 OPERATIONAL SQUADRONS.

oday's Air Force may still be the best in the world, but it's no match for a National Military Strategy that demands more than the current force can deliver.

After years of cutbacks, today's force is undermanned and under-equipped, Air Force leaders say, and the fight is on to build a bigger, more capable and ready force aligned with the requirements of the National Defense Strategy released in January.

The future force should include 386 squadrons, 74 more than today's 312, Air Force Secretary Heather Wilson said in defining "the force we need." That represents a 24 percent increase and would also require tens of thousands more airmen, Wilson said.

Details about the plan remain scant. The Air Force did not define the size or makeup of the squadrons and steered clear of detailing the number of aircraft or people in each. Instead, the baseline number comes from a half-year review of the service's force structure and will be a jumping-off point for a more detailed debate with the Pentagon, the White House, and Congress over the coming year.

Wilson set a target of 2025-2030 to complete the expansion, which would bring the service to a size not seen since the early 1990s.

"We aren't naïve about how long it will take us to build the support and the budget required for the force we need. It is a choice," Wilson said. "But we have an obligation to our countrymen: To tell them, as those before us have done in their time, what should be done, what must be done."

The proposed increase was based on data derived from analysis, war games, modeling, and simulation. Top officials from the Air Staff and also major commands participated, using modern intelligence about potential adversaries and the most recent concepts of operations to determine the optimum size of the force. The nation will rely on the Air Force to lead future fights, Wilson argued, and at its current size, USAF can't meet the demands of the nation's combatant commanders.

By Brian Everstine, Pentagon Editor

AFRC

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USAF needs 22 more command and control and ISR squadrons, Air Force Secretary Heather Wilson argues. Here, mission crew commander Lt. Col. Vida Roeder of the 461st Air Control Wing monitors operations supporting a multinational exercise near Denmark.

"We know now from analysis what everyone in this room knows from experience," Wilson said. "The Air Force is too small for what the nation expects of us; 312 Operational Squadrons is not enough." Wilson said the additional squadrons will include:

- 22 more command and control and intelligence, surveillance, and reconnaissance squadrons
- and reconnaissance squadrons
- 14 more aerial refueling squadrons9 more combat search and rescue squadrons
- 7 more fighter squadrons
- 7 more special operations squadrons
- 7 more space squadrons
- 5 more bomber squadrons
- 2 more remotely piloted aircraft squadrons
- 1 more airlift squadron

While the Air Force will modernize its nuclear deterrent and cyber capabilities, Wilson said the service doesn't need to increase the number of missile or cyber operations squadrons.

Lt. Gen. Brian T. Kelly, deputy chief of staff for personnel, said the service will need some 45,000 more airmen to fill out 74 additional squadrons. Spread out over 12 years, the service would have to grow by 2 percent a year, something the service hasn't had to do in decades. Indeed, even during the Reagan buildup of the 1980s, the Air Force only grew by about 3 percent—and then soon after began a long decline.

'NOT A BIRTHRIGHT'

New rivals are rising up to challenge the United States, Wilson said, and the Air Force and the nation cannot claim air dominance as a "birthright" for the US. Rather, she added, it is a choice the country needs to make. The nation cannot be "naïve about the existence of evil, and new threats are emerging to which our generation must respond," she said.

The Air Force did not immediately explain how the larger force would be divided among Active Duty, Guard, and Reserve, nor did it address how the creation of a new space service would affect the plan. Wilson is developing a plan for creating a new Space Force to be included in the 2020 budget request that goes to Congress in February.

The new benchmark is only "the beginning of the discussion" about what it will take to meet the National Defense Strategy requirements,



"The Air Force is too small for what the nation expects of us," SECAF Wilson says. "New threats are emerging to which our generation must respond."



and there will be "five or six more studies due in the next six months" that will flesh out the details, according to Wilson.

Wilson and Chief of Staff Gen. David L. Goldfein also addressed readiness and argued for a higher standard. In addition to growing the size of the Air Force itself, Goldfein said it was time to take a fresh look at the Air & Space Expeditionary Force deployment model, which has been in place since the mid-1990s. "Over time, we have migrated away from expeditionary forces," Goldfein said in his keynote address.

"We know how to ... fight the base and operate under attack," he said, but the next fight will be against a near-peer competitor and will require airmen to operate with smaller units spread out over a wider area.

There will be few established bases," and few of the amenities USAF units have become accustomed to having when they deploy, Goldfein said. Squadrons will have to operate independently and have reachback capability for command and control and other support.

Today's AEF sources airmen from throughout the Air Force and spins up units before each deployment.

But the homeland is no longer a sanctuary and the Air Force now needs to be ready to deploy with little to no warning, said Lt. Gen. Mark D. Kelly, the deputy chief of staff for operations. Kelly said units must be ready and cohesive enough to operate immediately.

"It's time to return to our expeditionary roots," Goldfein declared. New units will have "flexibility and scalability" to address whatever demands the regional commander makes, he said.

The Air Force is already taking some heat because the studies and plans that produced the 386 number are not transparent. The supporting information is either secret or otherwise closely held, making it hard to justify to defense appropriators, Brookings Institution expert Michael E. O'Hanlon said.

"I don't know what scenarios drove the calculations—they're classified," said O'Hanlon, director of foreign policy research at the Center for 21st Century Security and Intelligence at the think tank. Speaking at an AFA Mitchell Institute panel on the service's new force-structure plan, O'Hanlon said, "If I did know, I could not talk about it here, and some of you do know, and you can't talk about it here with me, which means we can't talk about it with the broader nation, which means we can't easily relate it to broader questions of US foreign policy and budget priorities."

Air Force leaders said the new baseline figures will inform the Fiscal Year 2020 budget deliberations, which were headed into their final stages at the time of the conference. USAF needs seven more fighter squadrons, according to leaders' analyses. F-22s from the 1st Fighter Wing, JB Langley-Eustis, Va., taxi down the runway at RAF Lakenheath, UK.

WRIGHT'S RALLYING CRY FOR RESILIENCE

MSAF Kaleth O. Wright's voice boomed out through a packed ballroom, where the crowd overflowed into the hallway. "Out of the night that covers me," he began, reciting the Victorian-era poem, "Invictus," from memory. "Black as the pit from pole to pole/ I thank whatever gods may be/ For my unconquerable soul."

Wright's recitation at the 2018 AFA Air, Space and Cyber Conference was all about resilience and the need to persevere.

"I think this poem serves to remind us that our fate is up to us, to ensure we remain undefeated, that we have to make the choices essential to our soul the ones we won't regret," Wright said in the talk that followed the poem.

Resilience is a skill that must be cultivated by actively taking responsibility for those things one can control and by intentionally pursuing self-care. This is Wright's vision for building better airmen.

William Ernest Henley, who lost a leg to illness in his youth, wrote the poem while recovering from medical interventions that saved the surviving one.

"Invictus" is Latin for "unconquered," and the poem has long inspired others, including survivors of the North Vietnamese Hoa Lo Prison, better known as the "Hanoi Hilton."

The late Navy Vice Adm. James Bond Stockdale recounted in a 1993 essay how a fellow POW secretly passed part of the poem to him after he returned from a period of solitary confinement. The poem's last verse had been inscribed "with a rat dropping."

Nelson Mandela also used it as inspiration during his time as a political prisoner in South Africa during the apartheid era.

But one need not be on the edge of life and death to find strength in "Invictus."

"I found poetry when I was a young man," Wright told *Air Force Magazine*. Writing poetry is a "great" avenue for self-expression, is "refreshing mentally," and remains a key part of his own mental resilience, he said. What's your resilience story? Tweet us @AirForceMag, using the hashtag #ResilienceReadingList.

By Jennifer-Leigh Oprihory, Digital Platforms Editor

SPACE PLANNING WILSON MAPS THE WAY AHEAD FOR A FOR A THE SERVICE

he way forward to developing a new Space Force and splitting out a sixth military service gained clarity at AFA's Air, Space & Cyber Conference, where Air Force Secretary Heather Wilson said the USAF has defined what she believes should be the "responsibilities and structure" of a new Space Force.

The Sept. 14 proposal, a copy of which was obtained by *Air Force Magazine*, estimates the Space Force will comprise some 13,000 personnel, including a headquarters staff and secretariat, with close to 8,000 in the Space Force element. In her cover letter to the proposal, Wilson suggests the administration ask Congress for authority and resources to establish the Space Force headquarters in Fiscal 2020, with programs and personnel to follow a year later.

The Air Force plan "avoids detours that do not support the president's policy position to establish a new military department," such as creating a Space Corps inside the Air Force, or new Defense Department positions. "There is no need to establish an assistant secretary of defense for space, nor is there any benefit to either establishing an additive agency or moving programs to a temporary holding organization," it says.

That position was described in Vice President Mike Pence's August announcement of the plan for a new Space Force.

Creating a new Space Force will "maintain the close connection between acquisition and the warfighter, and it must deepen the already close connection between military space and the space elements of the Intelligence Community," Wilson said in her conference keynote address.

The Air Force proposal urges DOD to assign the proposed Space Development Agency—which would be aimed at supporting new product development—to the existing Air Force Space Rapid Capabilities Office, allowing the Air Force to maintain at least a portion of the overall space portfolio. By Steve Hirsch, Senior Editor



In her cover letter, Wilson said the USAF Space Rapid Capabilities Office "was already given special authorities and exemptions by Congress to rapidly develop space capabilities."

She added, "This office exists now and has the personnel and expertise to develop and field the warfighting capabilities needed by US Space Command." Re-establishing a unified SPACECOM was another component of the August Space Force announcement.

The Air Force proposal called its own plan the "most cost-effective approach to fix critical issues immediately and achieve the expeditious and comprehensive implementation of a separate and equal Department of the Space Force."

DEADLINES AND MORE DEADLINES

The Space Force must start small, Deputy Defense Secretary Patrick M. Shanahan told the conference. It should have a limited headquarters, limited red tape, and a principal aim to accomplish its mission by "doing no harm" to the work the Air Force has already achieved.

That means ensuring current mission effectiveness remains intact and avoiding opening "seams" between the services. Pentagon leadership must be "laser-focused" on what the warfighters need to dominate in space, he said.

In a Sept. 10 internal Pentagon memo from Shanahan, also obtained by *Air Force Magazine*, he laid out a series of important deadlines for senior military leaders related to the Space Force proposal.

Shanahan's memo directed the military service Secretaries, the Chairman of the Joint Chiefs of Staff, and the Office of the Secretary of Defense and DOD component heads to take specific actions to establish the Space Force.

The chief management officer was to come up with a plan to establish a new assistant secretary of defense for space and the White House was to start identifying potential candidates for the post, with an interim progress review due to a new Space Governance Committee being set up to oversee establishment of the Space Force by Oct. 1.

The Chairman of the Joint Chiefs of Staff, Gen. Joseph F. Dunford Jr., was put in charge of the push to re-establish a unified combatant command for space, which the memo said should stand up by the end of this year. The Joint Staff, which was tasked with developing

Members of the 30th Operations Support Squadron weather flight team participate in the launch of the InSight mission to Mars. The Air Force would split such operations out into a new Space Force now being developed in the Pentagon.



During a training exercise, the 4th Space Operations Squadron loads a Low Profile Antenna into a C-17 at Peterson AFB, Colo. Even if "space" became a separate service, the Air Force would still be responsible for transporting space gear in times of conflict. a plan to move authorities and capabilities to US Space Command, was to provide an interim progress review to the Space Governance Committee by Sept. 30.

The memo directed Dunford to work with the service Secretaries and the undersecretary of defense for personnel and readiness to produce an inventory of space operations-related forces and functions, while the undersecretary was to come up with an approach for managing DOD space personnel. The Joint Staff was to produce an interim progress review by Oct. 1, to include a recommended target date for initial operational capability in 2019.

The legislative proposal to set up the Space Force, including its roles and missions, structural options, responsibilities, relationship with the USSPACECOM, and a "lean headquarters model to avoid growing unnecessary bureaucracy," is to be submitted to the Office of Management and Budget by Dec. 1—although an interim progress review was due to the Space Governance Committee by Oct. 15.

Meanwhile, an interim progress review on preparing the Space Force budget for the administration's Fiscal Year 2020 budget request and the five-year Future Years Defense Program were due Oct. 15.

Wilson and the Undersecretary of Defense for Research and Engineering, Michael D. Griffin, were directed to develop concepts for the Space Development Agency, and draft concepts were due Sept. 14, according to the memo.

QUESTIONS, QUESTIONS, QUESTIONS

The Air Force push was not without critics.

The budget estimate in Wilson's proposal came under questioning from Todd Harrison, Center for Strategic and International Studies director of defense budget analysis, who said Sept. 20 that the roughly \$13 billion is "not a conservative estimate," adding that, "this is the highest estimate I think you could possibly come up with."

He also raised questions about a number of aspects of the memo, including its personnel estimates and costs for a new building.

"I don't think that there's a lot to this cost estimate," he said.

Nevertheless, the machinations around the shape of the new department came at a time that acceptance of space as a military domain is becoming more widespread.



SpaceX President Gwynne Shotwell is concerned about national security space threats from both Russia and China.

Gen. John Raymond, AFSPC commander, wants a defendable space architecture.



Air Force Space Command chief Gen. John "Jay" Raymond, during an ASC18 presentation, laid out four lines of effort his command is pursuing at the "strategic inflection point" when space is becoming a contested domain.

Raymond said AFSPC is concentrating on partnerships within the Air Force, with the Intelligence Community, and with allies, as well as relations with industry.

"There's an explosion of things happening in the commercial industry, and we want to capitalize on that," he said.

He also said AFSPC is working to develop joint warfighters—including space operators who understand joint operations and conventional operators who understand space—and moving toward defendable space architectures.

"The constellations that we have on orbit today aren't all that defendable," he said, suggesting they have been compared to the "slow kids in gym class that can't run very fast."

The command, he said is going "to make them run a little faster."

Finally, in an effort mostly involving the Space and Missile Systems Center, he said AFSPC is working to improve its acquisition agility to ensure it can develop new capabilities quickly.

SpaceX President Gwynne Shotwell told attendees she had concerns about Russian military space efforts, and more so about threats from China.

These foreign space companies, she said, are backed heavily by their governments. She noted that Chinese media has reported that country's goal of flying 40 times this year.

"It's not for commercial customers, they have very few commercial customers," noted Shotwell. "We should be quite worried about that."

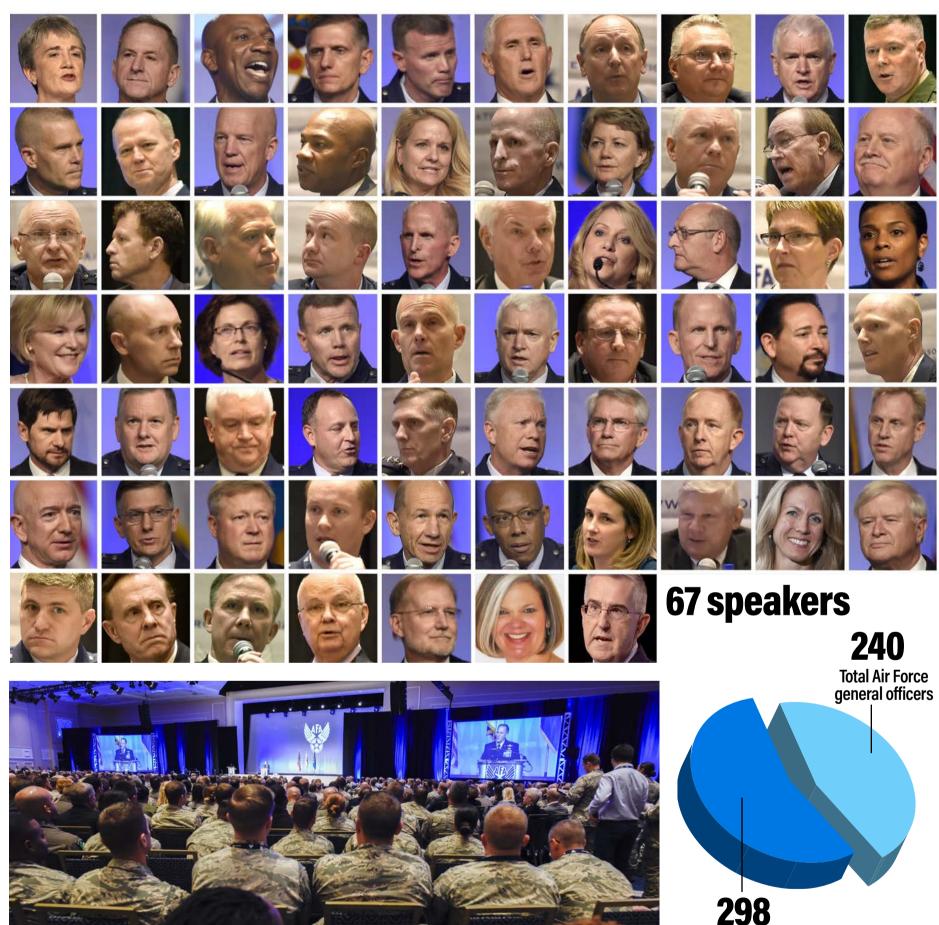
She also raised concerns about the rapid pace and heavy underwriting of the Chinese space program and its innovations.

When asked whether SpaceX would consider launching offensive military systems, she replied, "If it's for the defense of this country, yes."

The answer earned applause.

FAST FACTS IN NUMBERS FROM ASC





More than 6,600

Total Air Force members (Active Duty, Guard, Reserve, SES, DOD Civilian)

More than 5,300

Total Air Force uniformed registrants

Total Air Force Active Duty generals



Foreign Military



Flags from all 50 states are presented during the Na-tional Anthem at the start of the Outstanding Airmen of the Year Dinner.







OAY Dinner USAF Dinner attendees

915

620



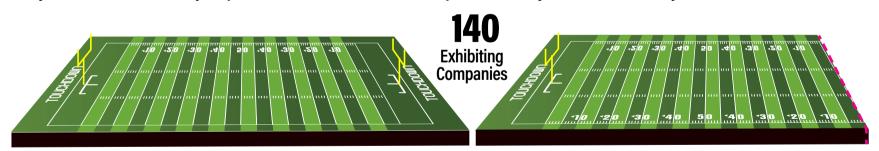


USAF Band string section performed at the Air Force Birthday Dinner.

10 Press Briefings/ Conferences



This year's exhibit floor was jam-packed with attendees. Exhibit space for next year's ASC is already sold out.



106,291 sq. ft. of Exhibit Space



Numbers were up at this year's Tech Expo.



A display of aircraft at the Lockheed Martin booth.

2018 AFA AWARDS



AFA Chairman of the Board F. Whitten Peters, left, and Gen. John Raymond, Commander, Air Force Space Command, far right, present the award for Best Space Operations Crew to the X-37B Operations Crew from Schriever AFB, Colo., at the Air Force Association's Air, Space & Cyber Conference at the Gaylord National Convention Center, National Harbor, Md.



Air Force Association President Larry Spencer, center, is awarded the Dwight D. Eisenhower Award.



Cyberpatriot National Commissioner Bernard Skoch, center, is awarded the AFA President's Citation by AFA President Larry Spencer, left, and AFA Chairman of the Board F. Whitten Peters.



Air Force Magazine Editorial Director John Tirpak, center, is awarded the Gill Robb Wilson Award by Air Force Chief of Staff Gen. David Goldfein, second from left, Secretary of the Air Force Heather Wilson, second from right, CMSAF Kaleth Wright, far right, and F. Whitten Peters, AFA Chairman of the Board, far left.

Deborah Lee James, right, former Secretary of the Air Force, is awarded the W. Stuart Symington Award by AFA Chairman of the Board F. Whitten Peters.

WINGMAN

CHAPTER NEWS



CHUCK YEAGER CHAPTER

The **Chuck Yeager Chapter** in West Virginia sponsored awards given at the Mountaineer Cadet Officer Leadership School (MCOLS) at Concord University in Athens, W.Va.

The school runs each year in June for a week, and this year 235 cadets from 16 schools and six states participated.

Cadet Sierra Knott from Jefferson High School, W.Va., won Best in Fitness (Female), Best in Personal Inspection, and Outstanding Basic Cadet; Cadet Casey Bennett from William Blount H.S., Tenn., won the Academic Achievement award; Cadet Wilton Kitt, Patrick Henry H.S., Va., won Outstanding Advanced Cadet; Cadet Avion Tucker, E.C. Glass H.S., Va., won Best in Individual Drill; Cadets Coralee Swan, Douglas H.S., S.D., and Rylie Hart, Hixon H.S., Tenn., won the Outstanding Flight Cadre awards; Cadet Lou Mustian, Deep Run H.S., Va., won Best in Fitness (Male); and Cadet George Struthers, Jefferson H.S., W.Va., won Best in Room Inspection.

MCOLS was founded in 2000. Its mission is to teach Air Force core values, to improve cadet's leadership abilities, marching skills, physical fitness, and to produce the next generation of leaders.

The chapter also announced the winners of the 22nd annual **Chuck Yeager Chapter** #209 Drill Competition, held at Parkersburg South High School, Parkersburg, W.Va., on Feb. 10, 2018: 1st place: PA-931; 2nd place: OH-091; 3rd place: OH-881, W. Va.; Grand Trophy: W.Va. 781. Top Three Knockout winners are: 1st place: Cadet Campbell, PA-931, 2nd place: Cadet Ward, OH-881, 3rd place: Cadet Smart, OH-881.

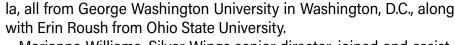
MONTGOMERY CHAPTER

Silver Wings Cadets participated in the Air University Intern Program from June 18-22, 2018, at Maxwell AFB, Ala. The **Montgomery Chapter** partnered with the Air University Foundation to provide a \$600 donation to fund four Silver Wings students, helping to defray costs during their AU Fellowship.

This year's interns were Ashley MacKinnon, Sheona Lalani, Ignacio Vide-

From left: Central East Region President Peter Jones and Chuck Yeager Chapter President Herman "Herk" Nicely II stand next to Mountaineer Cadet Officer Leadership Shool awardees/cadets: Sierra Knott, Casey Bennett, Wilton Kitt, Avion Tucker, Coralee Swann, Rylie Hart, Lou Mustian, and George Struthers.

Photo via Herman Nicely II



Marianne Williams, Silver Wings senior director, joined and assisted the AU project officer, Maj. Christopher Pugh, in accompanying the students—who are also AFA members—on their visit to two operational wings, the 187th Fighter Wing (ANG) and 908th Airlift Wing (AFRES). They also had the opportunity to learn about the Air Force's Center for Professional Military Education. The interns attended seminars, speeches, and lectures at Air War College, Air Command and Staff College, and Squadron Officer College.

The interns say the fellowship was an eye-opening experience.

LT. COL. B.D. "BUZZ" WAGNER CHAPTER

Artist Paul Jacobs donated his painting, "First Ace," depicting World War II hero Lt. Col. "Buzz" Wagner's most notable flight, at his hometown's Show-case for Commerce in Montclair, Va., in June.

He presented the painting to the **Lt. Col. B. D. "Buzz" Wagner Chapter** (Pa.), which also maintains a replica of Wagner's aircraft. The painting shows Wagner, the first American ace from World War II, rolling inverted to keep his target in sight. It gives the viewer a good feel for what that event may have felt like.

The painting will be a welcome addition to the chapter's permanent display honoring the service of Wagner, and will help keep his story alive for generations to come.

SPIRIT OF ST. LOUIS AFA

The Spirit of St. Louis Chapter held its 45th Annual Awards Ceremony in Maryland Heights, Mo., in March honoring the top four NCOs from the St. Louis area's Active and Guard units.

Pictured are the winners, flanked by the President and Vice President of the **Spirit of St. Louis AFA Chapter.** L-r: CMSgt. Gary Young (Ret.); Lt. Col. Joel Brown, AETC 345th Recruiting, Scott AFB, Ill.; TSgt. Angela Caufield; Lt. Col. Bill Layton, 157th Air Operations Group, Missouri ANG Jefferson Barracks; TSgt. Nicholas Noduft; Lt. Col. Michael J. Willen, USAF Band of Mid America, Scott AFB, Ill.; TSgt. Michael Correa; Col. J. Van Ryn, MOANG Medical Unit, Jefferson City, Mo.; TSgt. Tyer F. Owenby; and MSgt. Bob Schure, USAF (Ret.).



Silver Wings students get a firsthand look into the cockpit of a C-130H as they tour the 908th Airlift Wing (Air Force Reserve). L-r; Ignacio Videla, Ashley Mackinnon, Sheona Lalani, and Erin Roush.

Photo via Marianne Williams



Artist Paul Jacobs, left, and Lt. Col. B.D. "Buzz" Wagner Chapter Secretary Bob Rutledge, with the "First Ace" painting.

Photo via Bob Rutledge



Photo via Bob Schure



Squadron Commander, Lt. William Burns (I), and Randy Whitmire, Michigan state AFA president, present the AFA Outstanding Cadet Award to CAP Amn. Jake Roberson.

Photo via Randy Whitmire

AFA PRESENTS OUTSTANDING CADET AWARD

Civil Air Patrol Cadet, Amn. Jake Roberson, a 13-year-old student from Grand Haven Middle School in Michigan and also a member of the Lakeshore 119 Composite Squadron, received an Outstanding Cadet Award from the Air Force Association in June.

Cadet Roberson approached the senior members of his squadron shortly after joining CAP to suggest introducing more aerospace education routinely within the squadron. He volunteered his time and efforts to research subject matter for current event topics and to give monthly presentations, complete with sources of information as well as question and answer sessions. His fellow cadets describe his passion for aerospace as "contagious."

"I really enjoy learning about the topics and sharing that knowledge with others. I love CAP," said Roberson, who credits his parents, Mark and Carrie Roberson, for encouraging his interests in aerospace and CAP. Cadet Roberson plans to become an aerospace engineer.



Members of the Fairbanks Midnight Sun Chapter gather near the flight line on an icy runway at Eielson AFB, Alaska.

FAIRBANKS MIDNIGHT SUN CHAPTER

The Fairbanks Midnight Sun Chapter (Alaska) experienced a VIP tour of Eielson AFB, Alaska, in March, witnessing F-35 icy-runway testing throughout the day. The first stop was to the base's water treatment plant, which hosts a state-of-the-art filtration and distribution system. The system allows Eielson to have no outside lines, making he base's water supply 100 percent self-sustainable.

They visited the "Panther Pens," which house the 18th Aggressor Squadron and its fleet of F-16 fighters. Members were able to climb aboard and get a firsthand look. The base typically conducts Red Flag exercises from April through October.

The five-hour tour ended with stops at the 168th Wing, where KC-135s are maintained. Chapter members traveled along the flight line and got out on the ramp to observe F-35 "touch-and-gos."

Before members departed, they were hosted at a luncheon at the Yukon Club and enjoyed a final presentation by Col. Jacob Trigler, commander of the 354th Operations Group. He gave the group a mission brief empasizing Eielson's strategic impor-

tance—being able to reach anywhere in the Pacific area of responsibility within eight hours.

N.J. AFA

Sal Capriglione Chapter (N.J.) president, Joseph Capriglione, left, pesented an AFA pin and cap to Col. Neil Richardson, commander of JB McGuire-Dix Lakehurst, N.J., and the 87th Air Base Wing.

Richardson was the guest speaker for the Ocean County Community Business Association meeting held in Tom's River, N.J., in January. He discussed the new upcoming contruction at McGuire and its impact on the Ocean County community.



Warming up in the "Panther Pens" next to an F-16.

Photos via Nicole Stewart



Photo via Ziggy Wozniak



Lt. Col. Dave Garner (left), representing the Gen. Bruce K. Holloway Chapter and the Tennessee Wing CAP, and Lt. Col. Gary Lynn, also of the Tennessee Wing CAP, present the Tennessee State Teacher of the Year awards to Sherilyn Dawson.

Photo via David Garner



Jeff James, AFA Gerrity Chapter VP for Education and Marc Stewart (right), past Gerrity Chapter President and National AFA Emerging Leader, man the AFA booth at the Oklahoma State Capitol.

Right: (L-r) AFA National At-Large Board Member Mark Tarpley, AFA State VP, Oklahoma Aeronautics Commissioner Jim Putnam, and Chase Beasley from American Airlines Governmental Affairs participated in discussions on aerospace eduction with key members of the Oklahoma Senate.

GEN. BRUCE K. HOLLOWAY CHAPTER

Sherilyn Dawson, a K-5 teacher at Concord Christian School in Knoxville, Tenn., and also a 9-12 afterschool STEM teacher at Oak Ridge Associated Universities, was selelected as the **Gen. Bruce K. Holloway Chapter** (Tenn.) and Tennessee State Teacher of the Year, as well as the Tennessee Wing Civil Air Patrol Aerospace Teacher of the Year.

Dawson won the awards because of her aerospace education instruction to both elementary and high school students. She used STEM kits provided by CAP to enhance her instruction with hands-on lessons in aerospace science, robotics, and space science, including a high-altitude balloon launch and recovery.

The joint presentation of the Teacher of the Year awards took place at the school in an awards assembly of high school students and staff, highlighting the close AFA-CAP relationship in East Tennessee.

G.V. SONNY MONTGOMERY CHAPTER

This year's Mississippi Teacher of the Year who has excelled in Science, Technology, Engineering, and Math (STEM), chosen by the **G. V. Sonny Montgomery Chapter** (Miss.), is Enterprise Elementary-Middle School teacher Megan Shumate.

Shumate was recognized for her teaching her students creativity and critical thinking skills.

Working with 2nd through 6th graders, she taught the students to explore coding and programming Spero robots to maneuver "hands-free" through increasingly difficult obstacle courses. Using physics applications, the students studied the shape of snowflakes and learned how air density affected the aerodynamics and fall rates of the snowflakes. Her students finished the year by designing their own video game, using Bloxels, and by building a programmable robot with Lego kits.

CENTRAL OKLAHOMA CHAPTER

The **Central Oklahoma (Gerrity) Chapter** was one of 65 educational and corporate aerospace entities participating on April 24 in the "AERO Oklahoma" Aviation & Aerospace Advocacy Day at the Oklahoma State Capitol. The event is sponsored annually by the Oklahoma Aeronautics Commission.

Two industry groups, including three members of the **Gerrity Chapter**, visited with more than 30 legislators and the state speaker of the house, advocating not only for aerospace company interests, but also for the preservation and development of the state airport system. Additional **Gerrity Chapter** members manned a booth, sharing information about Oklahoma aerospace, chapter activities, and Air Force Association efforts such as the CyberPatriot program.

As Oklahoma's second largest industry, aviation has a significant impact on the lives of its citizens. The event was a unique opportunity for Oklahoma military, aerospace companies, private and commercial pilots, airport managers, municipal officials, drone pilots, educators, flying clubs, and many users of the Oklahoma airport system to meet one-on-one with state legislators and other elected officials.

The official address was given by Governor Mary Fallin, who welcomed the large crowd with remarks about the aviation and aerospace industry spurring some \$44 billion in annual economic activity, while supporting 206,000 jobs, and totaling a \$11.7 billion payroll. Lt. Gen. Lee K. Levy II, then-commander of the Air Force Sustainment Center headquartered at Tinker Air Force Base in Oklahoma City, also spoke regarding the impact of military aviation.





G.V. Sonny Montgomery Chapter President Langford Knight (left) presented the Mississippi State Teacher of the Year Award to Megan Shumate.

Photo via Langford Knight

Left: Lt. Gen. Lee K. Levy II spoke in front of the Oklahoma City Air Logistics Complex booth. Tinker Air Force Base is the largest single-site employer in Oklahoma.

Photos via Janelle Stafford



Georgia ANG C-130 from the 165th Airlift Wing, Savannah, Ga.



Marietta High School cadets, all smiles and ready to go.

DOBBINS CHAPTER

On April 6, 2018, a Georgia ANG C-130 Hercules from the 165th AW based at Savannah ANGB, Ga., departed from the Clay National Guard Center, Dobbins ARB, Ga., for an AFJROTC orientation flight over north Georgia coordinated by the Georgia National Guard recruiting and retention office.

A host of passengers included: Junior and Senior AFJROTC cadet and detachment leadership from Marietta High School, Wheeler H.S., Collins H.S., Dutchtown H.S., Towers H.S., and East Paulding H.S., as well as **Dobbins Chapter** President Michael Wilkins and special guests.

Also in attendance were representatives from Cobb Industrial Inc.,— Bryan Pickens, Detera Pickens, and Sydney Pickens—which sponsor's AFA's **Dobbins Chapter** (Ga.) STEM scholarship in conjunction with the AFJROTC AFA National Award Certificate, Medal, and Ribbon presented to the top cadet in each detachment.

Following the flight, guests received a presentation from the Georgia ANG leadership who reviewed the military career and servivce opportunites offered by the Georgia ANG and fielded questions from the cadets.

MSgt. Jose Padilla, state recruiting and retention supervisor, spoke about the Guard's "citizen airmen"—civilians with full-time jobs. He reviewed educational opportunities, including scholarships and financial assistance. The cadets were very interested in learning more about opportunities available to them after high school.

BRIG. GEN. BILL SPRUANCE CHAPTER

An Aerospace Education Activity Day was organized by Derald Wentzien, President of the **Brig. Gen. Bill Spruance Chapter** (Del.).

In May, Delaware Civil Air Patrol cadets, University of Delaware AFROTC cadets, and members of the Delaware State Air Force Association attended the activity day/workshop at Dover Air Force Base's Air Mobility Command Museum in Dover, Del.

The Delaware CAP cadets participated in a Jeopardy-type contest, learned about the history of the Delaware CAP, participated in a team-building exercise conducted by the UD AFROTC cadets, held a STEM egg-drop challenge, and learned about drones used by CAP.

Delaware AFA State President Bill Oldham was in attendance and spoke to the cadets.



L-r: Col. George Xiques, USAF (Ret.), Senior Aerospace Science instructor from Wheeler High School, and Michael Wilkins, President AFA Dobbins Chapter, before takeoff.

Photos via Michael Wilkins



University of Delaware AFROTC cadets conducted a human knot team-building exercise and led the Delaware CAP in drill exercises.

Photos via David Wentzien

Lt. Col. Elmer Boyer, Delaware CAP, moderated Jeopardy. Categories included The Wright Brothers, Billy Mitchell, Neil Armstrong, and Amelia Earhart.

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Operation Enduring Support Blanket

Doolittle Squadron \$25

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GIFT



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AFA Leadership Command \$100

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www.AFA.org/OperationEnduringSupport



We are YOUR Air Force Association We are AIRMEN for LIFE

WINGMAN

Beth Leavitt is AFA's National Teacher of the Year.

By McKinnon Pearse

IEACHER OF THE YEAR

283

helps students with a STEM project. Left: Leavitt (top row, left) is the director of FIRST Robotics Team 283 (pictured).

Top: Beth Leavitt

Share. Teach. Empower. Motivate.

All of these words describe the tools used by Beth Leavitt of Wade Hampton High School, Greenville, S.C., who has been named the 2018 AFA National Teacher of the Year (TOY) by the Air Force Association (AFA) and Rolls-Royce.

As part of AFA's mission to encourage aerospace education in science, technology, engineering, and math (STEM) fields, the TOY program ensures America's aerospace excellence by supporting teachers who carry out that mission in the classroom.

SHARE

Beth Leavitt has been a physical science, chemistry, astronomy, engineering, and physics teacher at Wade Hampton High School in Greenville, S.C., since 1999. She holds a degree in the sciences and has previously worked as an environmental chemist for 12 years. Leavitt is currently lead of the Professional Learning Community in Physics and is a workshop presenter in her school district, state, and across the nation for the High Schools That Work program and also the National Science Teachers Association (NSTA).

TEACH

Leavitt collaborated with Buzz Aldrin's Share Space Foundation to bring Giant Mars Maps to her school district and beyond, and she has helped develop the curriculum to accompany these interactive maps. Additionally, she co-wrote physical science standards and presented a videotaped lesson on the solar eclipse for her school district. She is the director of FIRST Robotics Team 283, coordinating community engagement and developing and implementing summer engineering camps at Greenville Tech and Sevier Middle School.

EMPOWER

"The reason I engage in many after-school robotics programs is that these 'extended learning' environments are where students define a problem and then set about locating, selecting, organizing, presenting, and finally solving a problem," said Leavitt. "For a lifelong learner, it is an essential strategy. Being able to set parameters for the scope of a project, as well as setting and sticking to a time line for the completion of a project, is an imperative skill to ensure learning continues throughout a lifetime."

Leavitt has garnered grants totaling \$32,000 to conduct enrichment STEM programs and is a member and/or awardee of numerous national organizations, including American Modeling Teachers Association, iMAGINE Upstate STEMfest Board, NASA Networks of Educator Astronaut Teachers, American Vacuum Symposium Teacher Fellows, the Fulbright Memorial Teacher Award to Japan, and National Space Club's 2017 Educator of the Year, among others.

DOOLITTLE BUILDING BRICK CAMPAIGN

Over 70 years ago, Jimmy Doolittle built the foundation for AFA brick by brick. Continue his legacy and honor a family, friend, or your service to our great nation, by making a donation for your own personalized brick tile.

LARRY O. SPENCER GEN, USAF (RET) AFA PRESIDENT 4" x 8" x ½" Brick Tile - \$125 Donation

or



Give more prominence to your brick by adding the AFA logo - \$200 Donation

The Legacy Wall to be located at AFA's Headquarters in Arlington, VA

For more details and to order visit 👆 www.AFA.org/Bricks

AFA Almanac

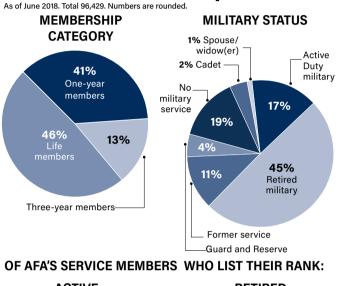
By Chequita Wood, Assistant Managing Editor

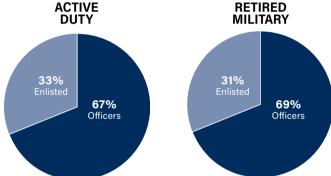
AFA Membership Statistics

The Air Force Association's 12 Founders

JOHN S. ALLARD Bronxville, N.Y.	EDWARD P. CURTIS Rochester, N.Y.	W. DEERING HOWE New York	SOL A. ROSENBLATT New York	JAMES M. STEWART Beverly Hills, Calif.	CORNELIUS VANDERBILT WHITNEY New York
EVERETT R. COOK,	JIMMY DOOLITTLE	RUFUS RAND	JULIAN B. ROSENTHAL	LOWELL P. WEICKER	JOHN HAY WHITNEY
Memphis, Tenn.	Los Angeles	Sarasota, Fla.	New York	New York	New York

Profiles of AFA Membership





DONALD W. STEELE SR. MEMORIAL AWARD Air Force Association unit of the year

Veen	Award Recipient(s)	
rear	Award Recidient(s)	

- 1953 San Francisco Chapter
- 1954 Santa Monica Area Chapter (Calif.) 1955 San Fernando Valley Chapter (Calif.)
- 1956 Utah State AFA
- 1957 H. H. Arnold Chapter (N.Y.)
- 1958 San Diego Chapter 1959 Cleveland Chapter
- 1960 San Diego Chapter
- 1961 Chico Chapter (Calif.) 1962 Fort Worth Chapter (Texas)
- 1963 Colin P. Kelly Chapter (N.Y.)
- 1964 Utah State AFA 1965 Idaho State AFA
- 1966 New York State AFA
- 1967 Utah State AFA
- 1968 Utah State AFA
- 1969 (No presentation) 1970 Georgia State AFA
- 1971 Middle Georgia Chapter
- Utah State AFA 1972
- 1973 Langley Chapter (Va.)
- Texas State AFA 1974
- 1975 Alamo Chapter (Texas) and San Bernardino Area Chapter (Calif.)
- 1976 Scott Memorial Chapter (III.)
- Thomas B. McGuire Jr. Chapter (N.J.) 1977
- Thomas B. McGuire Jr. Chapter (N.J.) 1978 1979 Brig. Gen. Robert F. Travis Chapter
- (Calif.)
- 1980 Central Oklahoma (Gerrity) Chapter
- 1981 Alamo Chapter (Texas)
- Chicagoland-O'Hare Chapter (III.) 1982
- 1983 Charles A. Lindbergh Chapter (Conn.)
- 1984 Scott Memorial Chapter (III.) and Colorado Springs/Lance Sijan Chapter (Colo.)

Year Award Recipient(s)

1985 Cape Canaveral Chapter (Fla.)

- 1986 Charles A. Lindbergh Chapter (Conn.) 1987 Carl Vinson Memorial Chapter (Ga.) 1988 Gen. David C. Jones Chapter (N.D.) 1989 Thomas B. McGuire Jr. Chapter (N.J.) 1990 Gen. E. W. Rawlings Chapter (Minn.) 1991 Paul Revere Chapter (Mass.) Central Florida Chapter and Langley 1992 Chapter (Va.) 1993 Green Valley Chapter (Ariz.) Langley Chapter (Va.) 1994 1995 Baton Rouge Chapter (La.) 1996 Montgomery Chapter (Ala.) 1997 Central Florida Chapter 1998 Ark-La-Tex Chapter (La.) 1999 Hurlburt Chapter (Fla.) 2000 Wright Memorial Chapter (Ohio) 2001 Lance P. Sijan Chapter (Colo.) 2002 Eglin Chapter (Fla.) 2003 Hurlburt Chapter (Fla.) 2004 Carl Vinson Memorial Chapter (Ga.) 2005 Central Florida Chapter 2006 Enid Chapter (Okla.) 2007 Central Oklahoma (Gerrity) Chapter 2008 Lance P. Sijan Chapter (Colo.)
- 2009 Paul Revere Chapter (Mass.)
- 2010 C. Farinha Gold Rush Chapter (Calif.)
- 2011 Lance P. Sijan Chapter (Colo.)
- 2012 Hurlburt Chapter (Fla.)
- 2013 Paul Revere Chapter (Mass.)
- 2014 D. W. Steele Sr. Memorial Chapter (Va.)
- 2015 Lance P. Sijan Chapter (Colo.)
- 2016 Paul Revere Chapter (Mass.) 2017 Enid Chapter (Okla.)
- 2018 Langley Chapter (Va.)

Year	Total	Life Members	Year	lotal	Life Members
1946	51,243	32	1982	179,149	7,381
1947	104,750	55	1983	198,563	13,763
1948	56,464	68	1984	218,512	18,012
1949	43,801	70	1985	228,621	23,234
1950	38,948	79	1986	232,722	27,985
1951	34,393	81	1987	237,279	30,099
1952	30,716	356	1988	219,195	32,234
1953	30,392	431	1989	204,309	34,182
1954	34,486	435	1990	199,851	35,952
1955	40,812	442	1991	194,312	37,561
1956	46,250	446	1992	191,588	37,869
1957	51,328	453	1993	181,624	38,604
1958	48,026	456	1994	175,122	39,593
1959	50,538	458	1995	170,881	39,286
1960	54,923	464	1996	161,384	39,896
1961	60,506	466	1997	157,862	41,179
1962	64,336	485	1998	152,330	41,673
1963	78,034	488	1999	148,534	42,237
1964	80,295	504	2000	147,336	42,434
1965	82,464	514	2001	143,407	42,865
1966	85,013	523	2002	141,117	43,389
1967	88,995	548	2003	137,035	42,730
1968	97,959	583	2004	133,812	42,767
1969	104,886	604	2005	131,481	43,094
1970	104,878	636	2006	127,749	43,266
1971	97,639	674	2007	125,076	43,256
1972	109,776	765	2008	123,304	43,557
1973	114,894	804	2009	120,507	43,782
1974	128,995	837	2010	117,480	43,954
1975	139,168	898	2011	111,479	44,182
1976	148,202	975	2012	106,780	43,686
1977	155,850	1,281	2013	102,540	43,851
1978	148,711	1,541	2014	96,017	43,720
1979	147,136	1,869	2015	92,829	43,936
1980	156,394	2,477	2016	93,379	44,074
1981	170,240	3,515	2017	90,970	44,083
			2018	96,429	44,068

JOHN R. ALISON AWARD AFA's highest honor for industrial leadership.

Year Award Recipient(s) Year Award Recipient(s)

- 1992 Norman R. Augustine, Chairman, Martin Marietta 1993 Daniel M. Tellep, Chm. and CEO,
- Lockheed 1994 Kent Kresa, CEO, Northrop Grumman
- 1995 C. Michael Armstrong, Chm. and CEO, Hughes Aircraft
- 1996 Harry Stonecipher, Pres. and CEO, McDonnell Douglas
- Dennis J. Picard, Chm. and CEO, 1997 Raytheon
- 1998 Philip M. Condit, Chm. and CEO, Boeing 1999 Sam B. Williams, Chm. and CEO,
- Williams International 2000 Simon Ramo and Dean E. Wooldridge,
- missile pioneers 2001 George David, Chm. and CEO, United
- Technologies 2002 Sydney Gillibrand, Chm., AMEC; and Jerry Morgensen, Pres. and CEO, Hensel
- Phelps Construction 2003 Joint Direct Attack Munition Industry

Team, Boeing

- 2004 Thomas J. Cassidy Jr., Pres. and CEO, General Atomics Aeronautical Systems 2005 Richard Branson, Chm., Virgin Atlantic Airways and Virgin Galactic
- 2006 Ronald D. Sugar, Chm. and CEO, Northrop Grumman
- 2007 Boeing and Lockheed Martin 2008 Bell Boeing CV-22 Team, Bell Helicopter
- Textron, and Boeing 2009 General Atomics Aeronautical Systems
- 2013 X-51A WaveRider Program, Boeing, Aerojet Rocketdyne, and Air Force
- Research Laboratory

- 2018 Skunk Works, Lockheed Martin
- 2011 United Launch Alliance 2012 Boeing

 - 2014 C-17 Globemaster III, Boeing
 - 2015 F-22 Raptor, Lockheed Martin
 - 2016 SpaceX
 - 2017 Northrop Grumman
- 2010 Raytheon

AFA MEMBER OF THE YEAR AWARD

1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	George H. Chabbott (Del.) and Hugh L. Enyart (III.) John P. E. Kruse (N.J.) Jack K. Westbrook (Tenn.) Charles G. Durazo (Va.) Oliver R. Crawford (Texas) Cecil H. Hopper (Ohio) George M. Douglas (Colo.) Jack C. Price (Utah) Lt. Col. James G. Clark (D.C.) William A. Lafferty (Ariz.) William N. Webb (Okla.) Tommy G. Harrison (Fla.) James M. McCoy (Neb.) Ivan L. McKinnev (La.)
1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	John P. E. Kruse (N.J.) Jack K. Westbrook (Tenn.) Charles G. Durazo (Va.) Oliver R. Crawford (Texas) Cecil H. Hopper (Ohio) George M. Douglas (Colo.) Jack C. Price (Utah) Lt. Col. James G. Clark (D.C.) William A. Lafferty (Ariz.) William N. Webb (Okla.) Tommy G. Harrison (Fla.) James M. McCoy (Neb.)
1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	Jack K. Westbrook (Tenn.) Charles G. Durazo (Va.) Oliver R. Crawford (Texas) Cecil H. Hopper (Ohio) George M. Douglas (Colo.) Jack C. Price (Utah) Lt. Col. James G. Clark (D.C.) William A. Lafferty (Ariz.) William A. Webb (Okla.) Tommy G. Harrison (Fla.) James M. McCoy (Neb.)
1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	Charles G. Durazo (Va.) Oliver R. Crawford (Texas) Cecil H. Hopper (Ohio) George M. Douglas (Colo.) Jack C. Price (Utah) Lt. Col. James G. Clark (D.C.) William A. Lafferty (Ariz.) William N. Webb (Okla.) Tommy G. Harrison (Fla.) James M. McCoy (Neb.)
1989 1990 1991 1992 1993 1994 1995 1996 1997	Oliver R. Crawford (Texas) Cecil H. Hopper (Ohio) George M. Douglas (Colo.) Jack C. Price (Utah) Lt. Col. James G. Clark (D.C.) William A. Lafferty (Ariz.) William N. Webb (Okla.) Tommy G. Harrison (Fla.) James M. McCoy (Neb.)
1990 1991 1992 1993 1994 1995 1996 1997	Cecil H. Hopper (Ohio) George M. Douglas (Colo.) Jack C. Price (Utah) Lt. Col. James G. Clark (D.C.) William A. Lafferty (Ariz.) William N. Webb (Okla.) Tommy G. Harrison (Fla.) James M. McCoy (Neb.)
1991 1992 1993 1994 1995 1996 1997	George M. Douglas (Colo.) Jack C. Price (Utah) Lt. Col. James G. Clark (D.C.) William A. Lafferty (Ariz.) William N. Webb (Okla.) Tommy G. Harrison (Fla.) James M. McCoy (Neb.)
1992 1993 1994 1995 1996 1997	Jack Č. Price (Utah) Lt. Col. James G. Clark (D.C.) William A. Lafferty (Ariz.) William N. Webb (Okla.) Tommy G. Harrison (Fla.) James M. McCoy (Neb.)
1993 1994 1995 1996 1997	Lt. Col. James G. Clark (D.C.) William A. Lafferty (Ariz.) William N. Webb (Okla.) Tommy G. Harrison (Fla.) James M. McCoy (Neb.)
1994 1995 1996 1997	William A. Lafferty (Ariz.) William N. Webb (Okla.) Tommy G. Harrison (Fla.) James M. McCoy (Neb.)
1995 1996 1997	William N. Webb (Okla.) Tommy G. Harrison (Fla.) James M. McCoy (Neb.)
1996 1997	Tommy G. Harrison (Fla.) James M. McCoy (Neb.)
1997	James M. McCoy (Neb.)
1998	luon L Makinnov (La)
	IVali L. Nickilliey (La.)
1999	Jack H. Steed (Ga.)
2000	Mary Anne Thompson (Va.)
2001	Charles H. Church Jr. (Kan.)
2002	Thomas J. Kemp (Texas)
2003	W. Ron Goerges (Ohio)
2004	Doyle E. Larson (Minn.)
2005	Charles A. Nelson (S.D.)
2006	Craig E. Allen (Utah)
2007	William D. Croom Jr. (Texas)
2008	John J. Politi (Texas)
2009	David R. Cummock (Fla.)
2010	L. Boyd Anderson (Utah)
2011	Steven R. Lundgren (Alaska)
2012	S. Sanford Schlitt (Fla.)
2013	Tim Brock (Fla.)
2014	James W. Simons (N.D.)
2015	James R. Lauducci (Va.)
2016	David T. Buckwalter (Texas)
2017	James T. Hannam (Va.)
2018	Russell V. Lewey (Ala.)
	1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017

State names refer to recipient's home state at the time of the award.

AFA CHAIRMAN'S AEROSPACE

EDUCATION ACHIEVEMENT AWARD

For long-term commitment to aerospace education, making a significant impact nationwide.

Defense STABBASE

nman Foundatior

Year Award Recipient(s)	Year Award Recipient(s)
2009 ExxonMobil Foundation	2014 Department of Defense S
2010 USA Today	Program
2011 The National Science Foundation	2015 Northrop Grumman Foun
2012 The Military Channel	2016 Harry Talbot
2013 The Civil Air Patrol Aerospace	2017 Analytical Graphics, Inc.
Education Program	2018 Project Lead the Way

GOLD LIFE MEMBER CARD

Awarded to members whose AFA record, production, and accomplishment on a national level have been outstanding over a period of years.

		5			
Name	Year	Card No.	Name	Year	Card No.
Gill Robb Wilson	1957	1	Sam E. Keith Jr.	1990	12
Jimmy Doolittle	1959	2	Edward A. Stearn	1992	13
Arthur C. Storz Sr.	1961	3	Dorothy L. Flanagan	1994	14
Julian B. Rosenthal	1962	4	John O. Gray	1996	15
Jack B. Gross	1964	5	Jack C. Price	1997	16
George D. Hardy	1965	6	Nathan H. Mazer	2002	17
Jess Larson	1967	7	John R. Alison	2004	18
Robert W. Smart	1968	8	Donald J. Harlin	2009	19
Martin M. Ostrow	1973	9	James M. McCoy	2013	20
James H. Straubel	1980	10	George M. Douglas	2014	21
Martin H. Harris	1988	11	John A. Shaud	2016	22
			Mary Anne Thompson	n 2018	23

H. H. ARNOLD AWARD

Named for the World War II leader of the Army Air Forces, the H. H. Arnold Award has been presented annually in recognition of the most outstanding contributions in the field of aerospace activity. Since 1986, it has been AFA's highest honor to a member of the armed forces in the field of national defense.

1972

1973

1979

of Staff

of Staff

Chiefs of Staff

1977 Sen. Howard W. Cannon

Sen. John C. Stennis

460th TRWs

Force, PACAE

USAF, Apollo 8 crew 1969 (No presentation)

and Michael Collins)

1967 Gen. William W. Momyer, Cmdr., 7th Air

1968 Col. Frank Borman, USAF; Capt. James

1970 Apollo 11 team (J. L. Atwood; Lt. Gen. S.

1971 John S. Foster Jr., Dir. of Defense Research

and the Vietnamese Air Force)

1974 Gen, George S, Brown, USAF, Chm., Joint

1975 James R. Schlesinger, Secretary of Defense1976 Sen. Barry M. Goldwater

1978 Gen. Alexander M. Haig Jr., USA, Supreme Allied Commander, Europe

1980 Gen, Richard H, Ellis, USAF, CINC, SAC 1981 Gen. David C. Jones, USAF, Chm., Joint Chiefs

Lovell, USN; and Lt. Col. William Anders,

C. Phillips, USAF; and astronauts Neil Armstrong and USAF Cols. Buzz Aldrin

and Engineering Air units of the allied forces in Southeast

Asia (Air Force, Navy, Army, Marine Corps,

Gen. John D. Ryan, USAF (Ret.), former Chief

Year Award Recipient(s) W. Stuart Symington, Secretary of the Air

- Force 1949 Maj. Gen. William H. Tunner and the men
- of the Berlin Airlift 1950 Airmen of the United Nations in the Far
- East Gen. Curtis E. LeMay and the personnel of 1951
- Strategic Air Command Sen. Lyndon B. Johnson and Sen. Joseph 1952
- C. O'Mahoney 1953 Gen. Hoyt S. Vandenberg, USAF (Ret.),
- former Chief of Staff
- 1954 John Foster Dulles, Secretary of State
- 1955 Gen. Nathan F. Twining, Chief of Staff, USAF
- 1956 Sen. W. Stuart Symington Edward P. Curtis, special assistant to the 1957
- President 1958 Maj. Gen. Bernard A. Schriever, Cmdr.,
- Ballistic Missile Div., ARDC 1959 Gen. Thomas S. Power, CINC. SAC
- 1960 Gen. Thomas D. White, Chief of Staff, USAF
- Lyle S. Garlock, Assistant SECAF 1961
- A. C. Dickieson and John R. Pierce, Bell 1962 Telephone Laboratories
- The 363rd Tactical Recon. Wing and the 1963 4080th Strategic Wing 1964 Gen. Curtis E. LeMay, Chief of Staff, USAF
- 1965 The 2nd Air Division, PACAF 1966 The 8th, 12th, 355th, 366th, and 388th
- Tactical Fighter Wings and the 432nd and

Year Award Recipient(s) Gen. Lew Allen Jr., USAF (Ret.), former Chie

of Staff 1983 Ronald W. Reagan, President of the United 2000 Gen. Michael E. Ryan, Chief of Staff, USAF

2003 Lt. Gen. T. Michael Moseley, Cmdr., air component, CENTCOM, and 9th Air Force

2004 Gen. John P. Jumper, Chief of Staff, USAF

2005 Gen. Gregory S. Martin, USAF (Ret.), former Cmdr., AFMC

2006 Gen. Lance W. Lord, USAF (Ret.), former Cmdr., AFSPC 2007 Gen. Ronald E. Keys, Cmdr., ACC

2010 Lt. Gen. David A. Deptula, USAF Deputy

2012 Gen. Norton A. Schwartz, USAF (Ret.).

2013 Gen. Douglas M. Fraser, USAF (Ret.), former Cmdr., SOUTHCOM

2014 Gen. C. Robert Kehler, USAF (Ret.), former

2015 Gen. Janet C. Wolfenbarger, USAF (Bet.).

2016 Gen. Mark A. Welsh III, USAF (Ret.), former

Lt. Gen. Christopher C. Bogdan, USAF (Ret.),

Gen. Duncan J. McNabb, Cmdr., TRANSCOM

2008 Gen. Bruce Carlson, Cmdr., AFMC

Chief of Staff, ISR

former Chief of Staff

Cmdr., STRATCOM

former Cmdr., AFMC

former PEO, F-35 Prgm 2018 Gen. Herbert J. Carlisle, USAF (Ret.), former

Chief of Staff

Cmdr., ACC

Year Award Recipient(s)

2003 James G. Roche, SECAF

Force

2002 Rep. James V. Hansen (R-Utah)

2009 Sen. Orrin G. Hatch (R-Utah)

2011 Rep. C. W. "Bill" Young (R-Fla.)

2013 Michael B. Donley, SECAF

& Prgm Evaluation

(Acquisition)

2012 Gen. James L. Jones, USMC (Ret.)

2010 John J. Hamre, Center for Strategic & International Studies

2014 Ashton B. Carter, former Deputy SECDEF

2015 William A. LaPlante, Asst. SECAF

2016 Jamie M. Morin, Director, Cost Assessment

2017 Lisa S. Disbrow, Undersecretary of the Air

2011

2017

2009 Gen. John D. W. Corley, Cmdr., ACC

2001 Gen. Joseph W. Ralston, CINC, EUCOM 2002 Gen. Richard B. Myers, USAF, Chm., Joint

Chiefs of Staff

- States 1984 The President's Commission on Strategic
- Forces (Scowcroft Commission) 1985 Gen. Bernard W. Rogers, USA, SACEUR
 1986 Gen. Charles A. Gabriel, USAF (Ret.), former
- Chief of Staff
- 1987 Adm. William J. Crowe Jr., USN, Chm., Joint Chiefs of Staff
- 1988 Men and women of the Ground-Launched Cruise Missile team
- 1989 Gen. Larry D. Welch, Chief of Staff, USAF
- 1990 Gen. John T. Chain, CINC, SAC 1991 Lt. Gen. Charles A. Horner, Cmdr., CENTCOM
- Air Forces and 9th Air Force 1992 Gen. Colin L. Powell, USA, Chm., Joint Chiefs
- of Staff 1993 Gen. Merrill A. McPeak, Chief of Staff, USAF
- 1994 Gen. John Michael Loh, Cmdr., Air Combat Command
- 1995 World War II Army Air Forces veterans 1996 Gen. Ronald R. Fogleman, Chief of Staff, USAF
- 1997 Men and women of the United States Air
- Force
- 1998 Gen. Richard E. Hawley, Cmdr., ACC 1999 Lt. Gen. Michael C. Short, Cmdr., Allied Air Forces Southern Europe

W. STUART SYMINGTON AWARD

AFA's highest honor to a civilian in the field of national security, the award is named for the first Secretary of the Air Force.

- Year Award Recipient(s) 1986 Caspar W. Weinberger, Secretary of Defense
- 1987 Edward C. Aldridge Jr., Secretary of the Air Force
- 1989 Ronald W. Reagan, former President of
- 1991 States
- 1992 Donald B. Rice, SECAF
- 1993 Sen. John McCain (R-Ariz.) 1994 Rep. Ike Skelton (D-Mo.)

- William Perry, former SECDEF 1997
- 1998 Rep. Saxby Chambliss (R-Ga.) and Rep.

- 2001 Sen. Michael Enzi (R-Wyo.) and Rep. Cliff

AFA LIFETIME ACHIEVEMENT AWARD

Year Award Recipient(s)

- 2003 Mai. Gen. John R. Alison, USAF (Ret.); Sen. John H. Glenn Jr.; Maj. Gen. Jeanne M. Holm, USAF (Ret.); Col. Charles E. McGee, USAF (Ret.); Gen. Bernard A. Schriever, USAF (Ret.)
- 2004 Gen. Russell E. Dougherty, USAF (Ret.); Florene Miller Watson 2005 Sen. Daniel K. Inouye; William J. Perry; Patty Wagstaff 2007 CMSAF Paul W. Airey, USAF (Ret.)

- 2008 Col. George E. Day, USAF (Ret.); Gen. David C. Jones, USAF (Ret.); Harold Brown 2009 Doolittle Raiders; Tuskegee Airmen; James R. Schlesinger
- 2010 Col. Walter J. Boyne, USAF (Ret.); Andrew W. Marshall; Gen. Lawrence A. Skantze, USAF (Ret.); Women Airforce Service Pilots Natalie W. Crawford; Lt. Gen. Thomas P. Stafford, USAF (Ret.); Gen. Larry D. Welch, USAF
- 2011 (Ret.); Heavy Bombardment Crews of WWII; Commando Sabre Operation-Call Sign Misty
- 2012 Gen. James P. McCarthy, USAF (Ret.); Vietnam War POWs; Berlin Airlift Aircrews; Korean War Airmen; Fighter Pilots of World War II 2013 Maj. Gen. Joe H. Engle, USAF (Ret.); US Rep. Sam Johnson; The Arlington Committee of the
- Air Force Officers' Wives' Club-"The Arlington Ladies" 2014 Brig. Gen. James A. McDivitt, USAF (Ret.); Civil Air Patrol-World War II veterans; American
- Fighter Aces
- R. "Bob" Hoover; Eugene F. "Gene" Kranz; Gen. Michael V. Hayden, USAF (Ret.)
 Maj. Gen. Claude M. Bolton Jr., USAF (Ret.); Lt. Col. John T. Correll, USAF (Ret.); Gen. Charles
- A. Horner, USAF (Ret.); Lt. Gen. James M. Keck, USAF (Ret.); Gen. Richard B. Myers, USAF (Ret.)
- Gen. Ronald B. Fogleman, USAF (Bet.): Col. Clarence F. "Bud" Anderson, USAF (Bet.): Elinor 2017 Otto; Lafayette Escadrille Memorial Foundation

2018 Maj. Gen. Alfred K. Flowers, USAF (Ret.); Dan Friedkin; Air Force Scientific Advisory Board; Air Force Enlisted Village; Air Force Aid Society

DOTTIE FLANAGAN STAFF AWARD OF THE YEAR

A donation from the late Jack B. Gross, national director emeritus, enables quarterly and staff member of the year awards.

Year Award Recipient(s)	Year Award Recipient(s)	Year Award Recipient(s)
1992 Doreatha Major	2001 Katie Doyle	2010 Bridget Wagner
1993 Jancy Bell	2002 Jeneathia Wright	2011 Merri Shaffer
1994 Gilbert Burgess	2003 Jim Brown	2012 Caitie Craumer
1995 David Huynh	2004 Pearlie Draughn	2013 Pamela Braithwaite
1996 Sherry Coombs	2005 Ursula Smith	2014 Bridget Dongu
1997 Katherine DuGarm	2006 Susan Rubel	2015 Nathaniel Davis
1998 Suzann Chapman	2007 Ed Cook	2016 Amanda L. Grandel
1999 Frances McKenney	2008 Michael Davis	2017 Alexandria Browning
2000 Ed Cook	2009 Chris Saik	

- 2004 Peter B. Teets, Undersecretary of the Air 1988 George P. Schultz, Secretary of State 2005 Rep. Duncan Hunter (R-Calif.) 2007 Michael W. Wynne, SECAF 2008 Gen. Barry R. McCaffrey, USA (Ret.)
 - the United States
- 1990 John J. Welch, Asst. SECAF(Acquisition) George Bush, President of the United

- 1995 Sheila E. Widnall, SECAF
- 1996 Sen. Ted Stevens (R-Alaska)
- Norman D. Dicks (D-Wash.) F. Whitten Peters, SECAF
- 1999
- 2000 Rep. Floyd Spence (R-S.C.)
- Stearns (R-Fla.)

2018 Deborah Lee James, former SECAF

The award recognizes a lifetime of work in the advancement of aerospace.

Aerospace Awards

AWARDS AND RECIPIENTS

David C. Schilling Award Most outstanding contribution in the field of flight 13th Bomb Squadron, Whiteman AFB, Mo.

Theodore von Karman Award Most outstanding contribution in the field of science and engineering Dr. Mark Lewis

Most outstanding contribution in the field of arts and letters John A. Tirpak

Hoyt S. Vandenberg Award Most outstanding contribution in the field of aerospace education Organization of Black Aerospace Professionals

Thomas P. Gerrity Award Most outstanding contribution in the field of systems and logistics Maj. Shaun Parker, Southwest Asia

Lieutenant General Claire Lee Chennault Award For outstanding aerial warfare tactician(s) from ACC, PACAF, USAFE, ANG and AFRC Maj. Dustin Merritt, Hill AFB, Utah

General Larry D. Welch Award-Officer Most significant impact by an individual on the overall operations, safety, security, and effectiveness of the Air Force nuclear mission Lt. Col. Craig Bailey, Kleine Brogel AB, Belgium

General Larry D. Welch Award-Enlisted

Most significant impact by an individual on the overall operations, safety, security, and effectiveness of the Air Force nuclear mission MSgt. Cleveland Coley, Kleine Brogel AB, Belgium

General Larry D. Welch Award-Civilian

Most significant impact by an individual on the overall operations, safety, security, and effectiveness of the Air Force nuclear mission Barbara Johnston, Kirtland AFB, N.M.

General George C. Kenney Award Most significant contribution by an individual or team in the area of lessons learned USAFCENT Lessons Learned Team, Al Udeid AB, Qatar

Joan Orr Spouse of the Year Award For civilian spouses of military members for their significant contributions to the United States Air Force Morgan Noller, Travis AFB, Calif.

Chief Master Sergeant of the Air Force Thomas N. Barnes Award Most outstanding aircraft crew chief in the United States Air Force SrA. Tanner Apple, Luke AFB, Ariz.

Citations of Honor

RECIPIENTS AND ACHIEVEMENTS

Electronic Analysis Squadron, Wright-Patterson AFB, Ohio The Electronic Analysis Squadron delivered 2,000 intelligence products directly supporting more than \$150 billion in joint acquisition programs and Department of Defense assets. As the national center of excellence for predictive scientific and technical intelligence on worldwide electronic systems, the squadron provided crucial intelligence reterior acquisition unprodec patients on the patient compand steering acquisition upgrades, national policy, and combatant command tactical and operational strategies.

White House Communications Agency, J-3 Travel Operations,

Washington, D.C. The J-3 Travel Operations Section has demonstrated excellence while The J-3 Travel Operations Section has demonstrated excellence while providing command and control capabilities to the President, Vice President, First Lady, and White House staff. The team directly planned, resourced, and provided communications for the 45th Presidential Inauguration, nine natural disaster responses, the Group of 20 Summit, United Nations General Assembly, North Atlantic Treaty Organization Summit, Asia-Pacific Economic Cooperation Summit, and over 199 official travel missions supported across 14 countries.

SMSgt. Destiny Hager, Ramstein AFB, Germany

SMSgt. Destiny Hager, Hamstein AFB, Germany SMSgt. Destiny Hager of USAFE was critical to the standardization of air traffic operations, procedures, and training for 104 nations, 10 main operating bases, and 10 forward operating locations. Additionally, she worked directly with four combatant commands to implement the first-ever deployment of air traffic controllers as landing zone safety officers, mitigating the Air Force's combat controller shortage and allowing for safe aerodrome operations at eight classified locations. aerodrome operations at eight classified locations.

Air Force Awards

AWARDS AND RECIPIENTS

General Larry O. Spencer Innovation Award - Individual Capt. Michael J. Kanaan, The Pentagon, Va

General Larry 0. Spencer Innovation Award - Team The 6th & 927th Maintenance Squadron Top Coat Team, MacDill AFB, Fla.

International Affairs Excellence Award Officer - Lt. Col. Kathleen D. Buss; Enlisted - MSgt. Anthony B. Dunn; Senior Civilian - Patrick T. Luna; Junior Civilian - Bradley W. Schmidt

Professional, Civilian, Education, Management, and Environmental Awards

AWARDS AND RECIPIENTS

AFMC Management Award - Executive Division Edward Stanhouse, Wright-Patterson AFB, Ohio

AFMC Management Award - Middle Division* Lt. Col. Luis Otero, Wright-Patterson AFB, Ohio

AFMC Management Award- Junior Division* Richard Smith, JBSA-Lackland, Texas

USAFA Cadet of the Year Cadet Kyle Haak, Cadet Squadron 31, Colorado Springs, Colo.

AFROTC Cadet of the Year Cadet Austin Fischer, Detachment 028, Embry-Riddle Aeronautical University

CAP Aerospace Education Cadet of the Year muel Feijoo-Martinez, Vegas Valley Composite Squadron, Nev.

Chaplain Corps Award SMSgt. Tommy Tipton, JB Langley-Eustis, Va.

Paul W. Myers Award for Physicians Maj. Bryant Webber, Wright-Patterson AFB, Ohio

Juanita Redmond Award for Nursing Capt. Dana Volesky, Columbus AFB, Miss.

Stuart R. Reichart Award for Lawyers Col. Vance Spath, JB Andrews, Md.

Verne Orr Award for Effective Utilization of Human Resources 88th Security Forces Squadron, Travis AFB, Cali

Civilian Senior Manager of the Year Frederick Fallman, MacDill AFB, Fla.

Civilian Program Manager of the Year* James Samartino, Travis AFB, Calif.

Civilian Program Specialist of the Year* Michelle Capik, Eglin AFB, Fla

Civilian Wage Employee of the Year* Larry Moore, Dyess AFB, Texas

Gen. Edwin W. Rawlings Award - Management* Patricia Hudson, Dyess AFB, Texas

Gen. Edwin W. Rawlings Award - Technician* Patrick Albritton, Kadena AB, Japan

* presented at recipient's location

Air Reserve Component Awards

AIR NATIONAL GUARD AWARDS AND RECIPIENTS

Earl T. Ricks Award Outstanding ANG airmanship Lt. Col. Kristian Thiele, Texas ANG

CMSgt. Dick Red Award Best ANG maintainer TSgt. Edward Moyer, Montana ANG

Outstanding ANG Unit Best ANG unit airmanship 158th Operations Group, Vermont ANG

George W. Bush Award - Enlisted MSgt. Laduska Miller, Oregon ANG

George W. Bush Award - Officer Maj. Jamie Favro, Vermont ANG

Crew and Team Awards

AWARDS AND RECIPIENTS

Lt. Gen. Howard W. Leaf Award Best test team 416th Flight Test Squadron F-15SA Combined Test Team, Edwards AFB, Calif.

Lt. Gen. William H. Tunner Award Best airlift crew Crew of REACH 865, JB Lewis-McChord, Wash.

Brig. Gen. Ross G. Hoyt Award Best air refueling crew Crew of PETRO 91, Travis AFB, Calif.

Gen. John P. Jumper Award Best remotely piloted aircraft crew in USAF Pilot: Maj. Nicholas Myers; Sensor Operator: TSgt. Phillip Brattan; Mission Intelligence Coordinator: Lt. Ryan McDermott

Gen. Curtis E. LeMay Award Best bomber aircrew Crew of CHILL 33, Minot AFB, N.D.

Gen. Thomas S. Power Award Best missile combat crew Lt. Alyssa Ford and Lt. Collin Crane, Minot AFB, N.D.

Gen. Jerome F. O'Malley Best reconnaissance crew Crew of Python 73, 55th Wing, Offutt AFB, Neb.

Gen. Mark A. Welsh III One Air Force Award For the team that best demonstrates improved effectiveness through integrated solutions USAF Airfield Pavement Evaluation Team, JBSA-Lackland, Texas

Airborne Battle Management Crew Award 961st Airborne Air Control Squadron, Combat Crew One, Kadena AB, Japan

Best Space Operations Crew X-37B Operations Crew, Schriever AFB, Colo

BAVA Humanitarian Mission of the Year Award Most outstanding humanitarian mission 621st AMAG Hurricane Relief Team, JB McGuire-Dix-Lakehurst, N.J.

AIR FORCE RESERVE COMMAND AWARDS AND RECIPIENTS

President's Award for AFRC Best AFRC flying unit or individual of the year 916th Air Refueling Wing, Seymour-Johnson AFB, N.C.

AFRC Unit Award

Best AFRC wing of the year 920th Rescue Wing, Patrick AFB, Fla.

Citizen Airman and Employer of the Year Award for AFRC Maj. Bryan Card, Kratos Defense and Security Systems, Langley AFB, Va.

Outstanding State Organization

President Dan Ohnesorge

Small Chapter Brig. Gen. Bill Spruance Chapter, Del. President Derald Wentzien

Medium Chapter Lincoln Chapter, Neb.

Outstanding Chapters by Size

Tennessee Valley Chapter, Ala. President Rick Driesbach Extra Large Chapter Eglin Chapter, Fla.

President Candace Lovell

Large Chapter

Aerospace Education Excellence Award

Presented for excellence in aerospace education programming. To qualify, a chapter must have received the Aerospace Education Achievement Award this year.

Large Chapter Tennessee Valley Chapter, Ala. President Rick Driesbach

President Richard Holdcroft

Extra Large Chapter Lance P. Sijan Chapter, Colo. *President Kristen Christy*

Aerospace Education Achievement Award

Presented to chapters for outstanding achievement in aerospace education programming.

Langley Chapter, Va. President Mark "Buster" Douglas

President Joe Burke

President Gerald Ashley Scott Memorial Chapter, III. President Mark Morgan

Paul Revere Chapter, Mass.

President Donald Vazquez

Lance P. Sijan Chapter, Colo.

President Kristen Christy

Mel Harmon Chapter, Colo.

Montgomery Chapter, Ala.

President Patrick Albrecht

President Rick Driesbach

President Paula Penson

Community Partners

President Nicole Stewart

Lance P. Sijan Chapter, Colo.

Gen. Charles A. Gabriel Chapter, Va.

President Kristen Christy

Community Relations

Overall Programming

President Joe Burke

Veterans Affairs

Eglin Chapter, Fla. President Candace Lovell

Alaska

Tennessee Valley Chapter, Ala.

Gen. Bruce K. Holloway Chapter, Tenn.

Fairbanks Midnight Sun Chapter,

President Ray Brown

Chicagoland Chapter, III.

Richmond Chapter, Va. President Harper S. Alford

Gen. Charles A. Gabriel Chapter, Va.

Martin H. Harris Chapter, Fla. President Todd Freece

Eglin Chapter, Fla. President Candace Lovell

Wright Memorial Chapter, Ohio President Kent Shin

Lincoln Chapter, Neb. President Richard T. Holdcroft

Ak-Sar-Ben Chapter, Neb. President Chris Canada

Unit Exceptional Service Awards

Airmen and Family Programs Thunderbird Chapter, Nev. President Bobi Oates

Best Single Program Langley Chapter, Va. President Mark "Buster" Douglas

Communiations Gen. Charles A. Gabriel Chapter, Va. President Joe Burke

AAS/SW Integration Nation's Capital Chapter, D.C President John Bird

Jack Gross Award

Presented to the chapter in each size category with the highest number of new members as a percentage of chapter size at the beginning of the membership year. A minimum of 10 is required.

Small Chapter Mel Harmon Chapter, Colo. President Ray Brown

Medium Chapter

Extra Large Chapter Seidel Chapter, Texas President Paul Hendricks

Chapter Size Larger Than 1,100 Lance P. Sijan Chapter, Colo. *President Kristen Christy*

Large Chapter David D. Terry Jr. Chapter, Ark. President Jerry Reichenbach

Golden Triangle Chapter, Miss.

President Richard Johnson

Arthur C. Storz Sr. Membership Award

Presented to the AFA chapter producing the highest number of new members during the 12-month period ending June 30, 2018, as a percentage of total chapter membership as of July 1, 2017. This award is based on both the quantity of new members as well as sustained new member recruitment. A chapter must be chartered for at least three years to qualify.

Seidel Chapter, Texas President Paul Hendricks

Distinguished Sustained Aerospace Education Award

Bill Croom

Community Partner Membership Awards

GOLD AWARD

Presented to chapters whose Community Partners represent at least six percent of overall chapter membership, with a minimum number of Community Partners. The minimum number is determined by chapter size.

Tennessee Valley Chapter, Ala. Swamp Fox Chapter, S.C. Mel Harmon Chapter, Colo. Cheyenne Cowboy Chapter, Wyo. Golden Triangle Chapter, Miss. Fort Wayne Chapter, Ind. Gen. David C. Jones Chapter, N.D. Northeast Texas Chapter, Texas Meridian Chapter, Miss. Fairbanks Midnight Sun Chapter, Alaska Enid Chapter, Okla.

Special Recognition Awards

STATE GROWTH

These states have realized a growth in total membership from June 2017 to June 2018.

Arkansas Colorado District of Columbia Kansas Kentucky

Maryland Michigan Missouri South Dakota Tennessee

REGION GROWTH

These regions have realized a growth in total membership from June 2017 to June 2018.

Rocky Mountain Far West

Chairman's Citation

GINA GILES

KEN KELLY

CHRIS CANADA

NICHOLAS ABATE GERALD HOVATTER JOHN TOOHEY BOB GEHBAUER

Individual Awards by Region

Central East

Medal of Merit James Nichol Mike Winters Jack Diamond Lloyd Swede Tanisha Crosby John Lucarelli

Exceptional Service Award

Joe Burke James Lavin John Kennedy

Europe

Medal of Merit Dustin Lawrence

Far West Exceptional Service Award

Tyler Worley

Florida

Medal of Merit Dave Price James DeRose

Exceptional Service Award Dennis Krebs Bob Ceruti Thomas Guthrie Bob Hicks Nelson Arroyo Bill Yucuis Tim Brock Great Lakes Medal of Merit Ted Pifer Bobbie Smith Rhonda Roberts

Exceptional Service Award Gerald Reblin

Midwest Medal of Merit Kathleen O'Shea William Harding Todd Hunter Steven Miller David Skilton

Exceptional Service Award

Richard Holdcroft Thomas O'Shea Harley Thornton

New England

Medal of Merit David DeNofrio Matt Mleziva Dick Strifert Vincent Pamparo Nicole Citro Jonathan Belveal North Central

Medal of Merit Lloyd Ward Mary Ward Bryan Graddy Thomas Brummer

Erin Lee Vergara

CyberPatriot Mentor of the Year

James R. Johnson Cheyenne Central High School Cheyenne, Wyo.

ACHIEVEMENT AWARD

Presented in the field to chapters whose Community Partners represent at least three percent of overall chapter membership, with a minimum number of Community Partners. The minimum number is determined by chapter size.

Montgomery Chapter, Ala. Green Mountain Chapter, Vt. David D. Terry Jr. Chapter, Ark.

CHAPTER GROWTH

These chapters have realized a growth in total membership from June 2017 to June 2018.

Altoona Chapter, Pa. Baltimore Chapter, Md. Brig. Gen. Bill Spruance Chapter, Del Central Maryland Chapter, Md. Charleston Chapter, S.C. Chuck Yeager Chapter, W.Va. Cochise Chapter, Ariz. Col. H. M. Bud West Chapter, Fla. Columbia Gorge Chapter, Ore. David D. Terry Jr. Chapter, Ark. Del Rio Chapter, Texas Fairbanks Midnight Sun Chapter, Alaska Florida West Coast Chapter, Fla. Gen. Bruce K. Holloway Chapter, Tenn. Gen. H. H. Arnold Memorial Chapter, Tenn. Gen. Joseph W. Ralston Chapter, Ohio Gen, Robert E, Huyser Chapter, Colo. Gen. Russell E. Dougherty Chapter, Ky. Greater Seattle Chapter, Wash.

Harry S. Truman Chapter, Mo. Hawaii Chapter, Hawaii Inland Empire Chapter, Wash. Lance P. Sijan Chapter, Colo. Lewis E. Lyle Chaper, Ark Lexington Chapter, Ky. Mai, Gen, Edward R, Frv, Kan, Mile High Chapter, Colo. Mount Clemens Chapter, Mich. Nation's Capital Chapter, D.C. Pope Chapter, N.C. Prescott/Goldwater Chapter, Ariz. Pride of the Adirondacks Chapter, N.Y. Richmond Chapter, Va. Roanoke Chapter, Va Salt Lake City Chapter, Utah San Diego Chapter, Calif. Seidel Chapter, Texas

Thunderbird Chapter, Nev.

Hurlburt Chapter, Fla.

Calif. Strom Thurmond Chapter, S.C. Tennessee Valley Chapter, Ala. Tidewater Chapter, Va.

Spirit of St. Louis Chapter, N.Y.

Stan Hryn Monterey Bay Chapter,

Southeast

Medal of Merit Mike Wilkins Ginger Langley

Exceptional Service Award Larry Wells

Southwest

Medal of Merit

Jimmy Clark Marie Lankford Angelo Rossetti Dave Swock

Exceptional Service Award

Robert Hale Mark Koechle Judith Logan Walter Saeger

Texoma

Medal of Merit Robert Epstein Jeff James Darin Defendorf Joyce Sean Habina Marc Stewart Mechille Braden Rick Pena Scott Northcutt Bill Shewey John Traugott

Exceptional Service Award

Paul Hendricks Joseph Summers George Pankonin Ulrik Peterson Richard Buschelman Lori Earl

CyberPatriot Coach of the Year

Bill Blatchley Colorado Springs Cadet Squadron Colorado Springs, Colo.

Robert Ward Rocky Mountain Medal of Merit Margaret Eichman Exceptional Service Award Jim Aadland

South Central

Northeast

Medal of Merit

Medal of Merit Joe Bryant Zygmund Jastrebski William Jervis Stacey Sells Daryl Carpenter Eric Silkowski Larry Nix

Exceptional Service Award

Pauline Morisey Derick Seaton Teresa Anderson

AFA Chairmen of the Board and National Presidents



Jimmy Doolittle President, 1946-47 Chairman, 1947-49

Arthur F. Kelly President, 1952-53

Chairman, 1953-54

Howard T. Markey

President, 1959-60

Chairman, 1960-61

Jess Larson

President, 1964-67

Chairman, 1967-71

Victor R. Kregel President, 1979-81 Chairman, 1981-82

Jack C. Price

President, 1988-90

Chairman, 1990-92





George C. Kenney President, 1953-54

Chairman, 1954-55

Julian B. Rosenthal

Chairman, 1959-60

Robert W. Smart

President, 1967-69

Daniel F. Callahan

Chairman, 1979-81

Thomas G. Lanphier Jr. President, 1947-48





President, 1954-55 Chairman, 1955-56



President, 1960-61 Chairman, 1961-62



George D. Hardy President, 1969-71 Chairman, 1966-67 Chairman, 1971-72



John G. Brosky President, 1981-82 Chairman, 1982-84



James M. McCoy President, 1992-94 Chairman, 1994-96



Joseph E. Sutter Chairman, 2008-10

6 C. R. Smith President, 1948-49 Chairman, 1949-50

Ver

Gill Robb Wilson

President, 1955-56 Chairman, 1956-57

Joe Foss

President, 1961-62

Chairman, 1962-63



President, 1949-51

Carl A. Spaatz Chairman, 1950-51

10

Peter J. Schenk

President, 1957-59

President, 1963-64

Chairman, 1964-65

George M. Douglas President, 1975-77

Chairman, 1977-79

1

Martin H. Harris

President, 1998-2000

Chairman, 2000-02

.

Scott P. Van Cleef

Chairman, 2014-16



John P. Henebry President, 1956-57 Chairman, 1957-58

Ma

John B. Montgomery

President, 1962-63

Joe L. Shosid

President, 1973-75

Chairman, 1972-73

Chairman, 1975-76

Edward A. Stearn

Chairman, 1985-86

10



Harold C. Stuart President, 1951-52 Chairman, 1952-53



James M. Trail Chairman, 1958-59



Jack B. Gross Chairman, 1963-64



President, 1977-79 Chairman, 1976-77



Sam E. Keith Jr. President, 1986-88 Chairman, 1988-90



John J. Politi President, 2000-02 Chairman, 2002-04



F. Whitten Peters Chairman, 2016-



Robert E. Largent President, 2004-06ª Stephen P. Condor President, 2002-04 Chairman, 2004-06



Chairman, 2006-08b

^a The office of National President, an elected position, was disestablished in 2006. ^b AFA's Chairman of the Board also serves as Chairman of the AFA Veteran Benefits Association and prior to 2018 also as Chairman of the Air Force Memorial Foundation.

3 d Martin M. Ostrow President, 1971-73 Chairman, 1973-75



David L. Blankenship President, 1982-84 Chairman, 1984-85



Gene Smith President, 1994-96 Chairman, 1996-98



A S. Sanford Schlitt

Chairman, 2010-12



AS. George K. Muellner Chairman, 2012-14







AIR FORCE ASSOCIATION

AFA is proud to cultivate tomorrow's leaders through our Aerospace Education and STEM programs. We encourage students and teachers alike to aim high and be the best they can be.



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AIR FORCE ASSOCIATION MEMBERS

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AFA Executive Directors/Presidents/CEOs



1946-47





1948-80





Russell E. Dougherty Executive Director 1980-86



Craig R. McKinley

President

2012-15

John O. Gray Executive Director 1987-88, 1989-90



Charles L. Donnelly Jr. Executive Director 1988-89



Monroe W. Hatch Jr. Executive Director 1990-95



President 2015-



1995-2002

OPERATIONS

Joseph E. Sutter

James R. Lauducci

Justin M. Faiferlick

Scott P. Van Cleef David A. Dietsch

F. Gavin MacAloon

L. Boyd Anderson

S. Sanford Schlitt

Richard B. Bundy

James T. Hannam

Jerry E. White

George K. Muellner

VICE CHAIRMEN FOR

AEROSPACE EDUCATION

VICE CHAIRMEN FOR FIELD

2006-08 2008-10

2010-12

2012-14

2014-16

2006-07

2007-10

2010-12

2012-15

2015-18

2018-

2016-

Donald L. Petersor Executive Director

2006-07



President-CE0 2007-12



1986-87

Sol A. Rosenblatt 1946-47 Julian B. Rosenthal 1947-59 George D. Hardy 1959-66 Joseph L. Hodges 1966-68 Glenn D. Mishler 1968-70 Nathan H. Mazer 1970-72 Martin H. Harris 1972-76 lack C. Price 1976-79 Earl D. Clark Jr. 1979-82 Sherman W. Wilkins 1982-85 A. A. "Bud" West 1985-87 Thomas J. McKee 1987-90 Thomas W. Henderson 1990-91 Mary Ann Seibel Mary Anne Thompson 1991-94 1994-97 William D. Croom Jr. 1997-2000 Daniel C. Hendrickson 2000-03 Thomas J. Kemp 2003-06 Judy K. Church 2006-09 Joan Sell Edward W. Garland 2009-11 2011-14 Marvin L. Tooman 2014-15 John T. Brock 2015-17 Richard W. Hartle 2017-

ΝΔΤΙΟΝΔΙ	TREASURERS
MAIIONAL	THEADONEND

Mark A. Barrett

Acting President 2015

W. Deering Howe	1946-47
G. Warfield Hobbs	1947-49
Benjamin Brinton	1949-52
George H. Haddock	1952-53
Samuel M. Hecht	1953-57
Jack B. Gross	1957-62
Paul S. Zuckerman	1962-66
Jack B. Gross	1966-81
George H. Chabbott	1981-87
William N. Webb	1987-95
Charles H. Church Jr.	1995-2000
Charles A. Nelson	2000-05
Steven R. Lundgren	2005-10
Leonard R. Vernamonti	2010-14
Nora Ruebrook	2014-16
Charles L. Martin Jr.	2016
Steven R. Lundgren	2016-

° The position of Executive Director was replaced in 2006 by President-CEO. In 2012, the position was redesignated President. NATIONAL SECRETARIES

Michael M. Dunn



Wirman & Airmen Taking Care of Airmen



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AFA's Regions, States, and Chapters

These figures indicate the number of affiliated members as of June 2018. Listed below the name of each region is the region president.

nber o	These figures indicate the num
10,520	
	Peter Jones
366	Delaware
108	Brig. Gen. Bill Spruance
258	Delaware Galaxy
1,030	District of Columbia
1,030	Nation's Capital
1,977	Maryland
	Baltimore*
	Central Maryland
819	Thomas W. Anthony
6,946	Virginia
3,195	Donald W. Steele Sr. Memorial
1,143	Gen. Charles A. Gabriel
	Langley
	Northern Shenandoah Valley
	Richmond.
	Roanoke
	Tidewater
201	West Virginia
201	Chuck Yeager
8,020	FAR WEST REGION
	Wayne R. Kauffman
7,263	California
484	Bob Hope
465	Brig. Gen. Robert F. Travis
	C. Farinha Gold Rush
261	David J. Price/Beale
422	Fresno*
9/0	Gen. B. A. Schriever Los Angeles General Doolittle Los Angeles Area*
442	Golden Gate*
	High Desert.
	Orange County/Gen. Curtis
503	Е. LeMay
	Palm Springs
	Robert H. Goddard
	San Diego
	Stan Hryn Monterey Bay
	Tennessee Ernie Ford
757	
	Hawaii Hawaii*
7,378	FLORIDA REGION
	Sharon Branch
7,378	Florida
	Brig. Gen. James R. McCarthy
	Col. H. M. "Bud" West
	Eglin
431	Falcon
246	Florida Highlands
269	Florida West Coast
	Gold Coast
	Hurlburt
	Martin H. Harris
	Miami-Homestead
	Red Tail Memorial
1.034	Tyndall
	5
5,977	GREAT LAKES REGION
	Tom Koogler
1,055	Indiana
	Central Indiana
160	Fort Wayne
129	Southern Indiana
634	Kentucky
634	Southern Indiana
	Lawrence D. Bell Museum

Battle Creek.	1,31
Lake Superior Northland	
Lloyd R. Leavitt Jr	
Mount Clemens	
Ohio	2,97
Capt. Eddie Rickenbacker Memorial*.	
Frank P. Lahm	
North Coast*	
Steel Valley	10
Wright Memorial*	. 1,60
MIDWEST REGION	5,49
Chris Canada Illinois	2,05
Chicagoland-O'Hare	
Scott Memorial	
lowa	42
Fort Dodge	
Gen. Charles A. Horner	
Northeast Iowa	
Kansas	51
Lt. Erwin R. Bleckley	
Maj. Gen. Edward R. Fry	
Missouri	1,38
Harry S. Truman	49
Spirit of St. Louis	
Whiteman	
Nebraska Ak-Sar-Ben	1,11
Ak-Sar-Ben	
NEW ENGLAND REGION Kevin M. Grady	2,03
,	50
Connecticut	52
Connecticut Flving Yankees/Gen. George C. Kenney	52 29
Flying Yankees/Gen. George C. Kenney Lindbergh/Sikorsky	29
Flying Yankees/Gen. George C. Kenney Lindbergh/Sikorsky	29 22 1,19
Flying Yankees/Gen. George C. Kenney Lindbergh/Sikorsky	29 22 1,19 21
Flying Yankees/Gen. George C. Kenney Lindbergh/Sikorsky	. 29 . 22 1,19 . 21 . 19
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Flying Yankees/Gen. George C. Kenney Lindbergh/Sikorsky	29 22 1,19 21 19 55 22 58 58 17 13 3 16 16
Flying Yankees/Gen. George C. Kenney Lindbergh/Sikorsky Massachusetts Minuteman Otis Paul Revere. Pioneer Valley New Hampshire Brig. Gen. Harrison R. Thyng Rhode Island Metro Rhode Island Newport Blue & Gold Vermont Green Mountain NORTH CENTRAL REGION	29 22 1,19 21 19 55 22 58 58 17 13 3 16
Flying Yankees/Gen. George C. Kenney Lindbergh/Sikorsky	29 22 1,19 21
Flying Yankees/Gen. George C. Kenney Lindbergh/Sikorsky	29 22 1,19 21 19 55 22 58 58 17 13 3 16 16
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Flying Yankees/Gen. George C. Kenney Lindbergh/Sikorsky Massachusetts Minuteman Otis. Paul Revere. Pioneer Valley New Hampshire Brig. Gen. Harrison R. Thyng Rhode Island Metro Rhode Island Metro Rhode Island Newport Blue & Gold Vermont Green Mountain Intresota Gen. E. W. Rawlings Richard I. Bong Montana Big Sky	
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Flying Yankees/Gen. George C. Kenney Lindbergh/Sikorsky Massachusetts Minuteman Otis Paul Revere Pioneer Valley New Hampshire Brig. Gen. Harrison R. Thyng Rhode Island Metro Rhode Island Metro Rhode Island Mortmont Green Mountain Creen Mountain NORTH CENTRAL REGION Larry Saggstetter Minnesota Gen. E. W. Rawlings Richard I. Bong. Montana Big Sky Bozeman North Dakota Gen. David C. Jones Happy Hooligan	
Flying Yankees/Gen. George C. Kenney Lindbergh/Sikorsky Massachusetts Minuteman Otis Paul Revere Pioneer Valley New Hampshire Brig. Gen. Harrison R. Thyng Rhode Island Metro Rhode Island Metro Rhode Island Mortmont Green Mountain ORTH CENTRAL REGION Larry Saggstetter Minnesota Gen. E. W. Rawlings Richard I. Bong. Montana Big Sky Bozeman North Dakota Gen. David C. Jones Happy Hooligan Red River Valley	
Flying Yankees/Gen. George C. Kenney Lindbergh/Sikorsky Massachusetts Minuteman Otis Paul Revere Pioneer Valley New Hampshire Brig. Gen. Harrison R. Thyng Rhode Island Metro Rhode Island Montana Big Sky Bozeman North Dakota Gen. David C. Jones Happy Hooligan Red River Valley South Dakota	
Flying Yankees/Gen. George C. Kenney Lindbergh/Sikorsky Massachusetts Minuteman Otis Paul Revere Pioneer Valley New Hampshire Brig. Gen. Harrison R. Thyng Rhode Island Metro Rhode Island Metro Rhode Island Mortmott Green Mountain NORTH CENTRAL REGION Larry Saggstetter Minnesota Gen. E. W. Rawlings Richard I. Bong Montana Big Sky Bozeman North Dakota Gen. David C. Jones Happy Hooligan Red River Valley	
Flying Yankees/Gen. George C. Kenney Lindbergh/Sikorsky	
Flying Yankees/Gen. George C. Kenney Lindbergh/Sikorsky	
Flying Yankees/Gen. George C. Kenney Lindbergh/Sikorsky Massachusetts Minuteman Otis. Paul Revere. Pioneer Valley New Hampshire Brig. Gen. Harrison R. Thyng Rhode Island Metro Rhode Island Motana Big Sky Big Sky Bozeman North Dakota Gen. David C. Jones Happ Hooligan Red River Valley South Dakota Dacotah Rushmore Wisconsin Billy Mitchell	
Flying Yankees/Gen. George C. Kenney Lindbergh/Sikorsky	29 22 1,19 21 19 55 22 58 8 58 177 3 3 16 6 8 3. 3 16 68 8 19 7 3 16 6 8 20 2,52 8 3 16 3 16

bw the name of each region is th	e regioi
Hangar One	148
Highpoint	
Mercer County	
Sal Capriglione	212
Shooting Star	
Thomas B. McGuire Jr	260
New York	1,951
Albany-Hudson Valley*	323
Finger Lakes	252
Gen. Carl A. Spaatz	
Genesee Valley	
Iron Gate	
L. D. Bell-Niagara Frontier	
Long Island.	
Pride of the Adirondacks	
Pennsylvania	2,033
Altoona	122
Joe Walker-Mon Valley	208
Lehigh Valley	
Lt. Col. B. D. "Buzz" Wagner.	407
Mifflin County*	
Olmsted.	
Pocono Northeast	
Total Force	
York-Lancaster	
NORTHWEST REGION	4.000
NORTHWEST REGION	4,023
William Striegel	
Alaska	524
Edward J. Monaghan	141
0	
Idaho	408
Snake River Valley	408
Oregon	730
Bill Harris	185
Columbia Gorge*	545
Washington	2,361
Greater Seattle	758
Greater Seattle	758
Greater Seattle	758
Greater Seattle	758 653 950
Greater Seattle	758 653 950
Greater Šeattle	758 653 950
Greater Šeattle	758 653 950 4,945 3,650
Greater Šeattle	758 653 950 4,945 3,650 118 2,046
Greater Šeattle	758 653 950 4,945 3,650 118 2,046 140
Greater Šeattle	758 653 950 4,945 3,650 118 2,046 140
Greater Šeattle	758 653 950 4,945 3,650 118 2,046 140
Greater Šeattle	758 653 950 4,945 3,650 118 .2,046 140 1,346 1,007 350
Greater Šeattle	758 653 950 4,945 3,650 118 .2,046 140 1,346 1,007 350 384
Greater Šeattle	758 653 950 4,945 3,650 118 .2,046 140 1,346 1,007 350 384
Greater Šeattle	758 653 950 4,945 3,650 118 .2,046 140 1,346 1,007 350 384
Greater Šeattle Inland Empire McChord Field ROCKY MOUNTAIN REGION Don Kidd Colorado Gen. Robert E. Huyser. Lance P. Sijan. Mel Harmon Mile High Utah Northern Utah Salt Lake City. Ute-Rocky Mountain.	758 653 950 4,945 3,650 118 2,046 140 1346 1,007 350 384 273 288
Greater Šeattle	758 653 950 4,945 3,650 118 .2,046 140 1,346 1,007 350 384 288 288
Greater Šeattle	758 653 950 4,945 3,650 118 2,046 140 1346 1,007 350 384 273 288
Greater Šeattle	758 653 950 4,945 3,650 118 2,046 140 1,346 1,007 384 288 288 5,898
Greater Šeattle	758 653 950 4,945 3,650 118 .2,046 140 .1,346 1,007 350 273 288 273 288 273 288 288 5,898
Greater Šeattle	758 653 950 4,945 3,650 140 140 140 140 350 384 288 5,898 1,930 304
Greater Šeattle	758 653 950 4,945 3,650 140 140 140 1346 1,007 350 384 288 5,898 1,930 304 304 900
Greater Šeattle	758 653 950 4,945 3,650 140 140 140 1346 1,007 350 384 288 5,898 1,930 304 304 900
Greater Šeattle	758 653 950 4,945 3,650 118 2,046 140 1,346 1,007 384 288 288 5,898 1,930 304 304 304 304 304 304
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Greater Šeattle	758 653 950 4,945 3,650 118 2,046 140 346 1,007 350 384 288 5,898 5,898 1,930 304 900 160 818 475
Greater Šeattle	758 653 950 4,945 3,650 118 2,046 140 140 350 350 384 288 5,898 5,898 1,930 304 900 160 566 818 475 343 855
Greater Seattle Inland Empire McChord Field ROCKY MOUNTAIN REGION Don Kidd Colorado Gen. Robert E. Huyser. Lance P. Sijan. Mel Harmon Mile High Utah Northern Utah Salt Lake City. Ute-Rocky Mountain. Wyoming Cheyenne Cowboy. SOUTH CENTRAL REGION Russell V. Lewey Alabama Birmingham Montgomery . South Alabama. Tennessee Valley Arkansas David D. Terry Jr. Lewis E. Lyle Louisiana	758 653 950 4,945 3,650 118 2,046 140 1,346 1,007 384 288 384 273 288 384 288 5,898 1,930 304 304 304 304 304 304 304 304 306 364 365 364 365 365 384 365 384 388 388 388 365 365 384 365 384 365 384 365 384 365 384 386 384 388 386 384 365 384 365 384 365 384 386 384 365 384 365 384 365 384 365 384 365 384 365 384 388 388 365 384 365 384 365 384 365 384 388 388 388 388 384 386 384 388 388 388 388 388 388 388 384 384 384 386 384 384 384 386 384 384 384 386 384 384 384 384 388 388 384 385 384 384 384 384 384 384 384 384 384 384 384 384 385 462
Greater Šeattle	758 653 950 4,945 3,650 118 2,046 140 1,346 1,007 384 288 384 273 288 384 288 5,898 1,930 304 304 304 304 304 304 304 304 306 364 365 364 365 365 384 365 384 388 388 388 365 365 384 365 384 365 384 365 384 365 384 386 384 388 386 384 365 384 365 384 365 384 386 384 365 384 365 384 365 384 365 384 365 384 365 384 388 388 365 384 365 384 365 384 365 384 388 388 388 388 384 386 384 388 388 388 388 388 388 388 384 384 384 386 384 384 384 386 384 384 384 386 384 384 384 384 388 388 384 385 384 384 384 384 384 384 384 384 384 384 384 384 385 462
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Greater Šeattle	758 653 950 4,945 3,650 118 2,046 140 1,346 1,007 350 384 2,273 288 288 5,898 5,898 1,930 304 900 166 818 475 343 855 462 343 779 252 359
Greater Šeattle	758 653 950 4,945 3,650 118 2,046 140 1,346 1,007 350 384 2,273 288 288 5,898 5,898 1,930 304 900 166 818 475 343 855 462 343 779 252 359
Greater Šeattle	758 653 950 4,945 3,650 118 2,046 140 1346 1,007 384 288 5,898 1,930 384 288 5,898 1,930 304 900 160 566 818 462 393 779 252 359 168 1,516

Maj. Gen. Dan F. Callahan.		• • •
SOUTHEAST REGION		6,
Rodgers K. Greenawalt		
Georgia		2,
Carl Vinson Memorial		
Dobbins		
Savannah		
South Georgia		
North Carolina		2
Blue Ridge		
Kitty Hawk		
Pope		
Scott Berkeley		
Tarheel		
South Carolina		1.
Charleston		
Columbia Palmetto		
Strom Thurmond		
Swamp Fox		
SOUTHWEST REGION		5,
John A. Toohey		
Arizona		3,
Cochise		
Frank Luke		
Prescott/Goldwater		
Tucson		
Nevada		1,
Thunderbird		
New Mexico		1
Albuquerque		• •
Fran Parker		
		10
Kelly Jones		
Oklahoma		1
Altus		
Central Oklahoma (Gerrity)		
Enid		
Tulsa		
-		9,
Texas		
Abilene		1
Abilene	· · · · · · · · ·	1
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OVERSEAS CHAPTERS US Air Forces in Europe Charlemagne: Geilenkirchen, Germany Dolomiti: Aviano AB, Italy Ramstein: Ramstein AB, Germany Spangdahlem: Spangdahlem AB, Germany United Kingdom: RAF Lakenheath, UK Pacific Air Forces Keystone: Kadena AB, Japan MiG Alley: Osan AB, South Korea Tokyo: Tokyo, Japan

*These chapters were chartered before Dec. 31, 1948, and are considered original charter chapters. Ohio's North Coast Chapter was formerly the Cleveland Chapter; Oregon's Columbia Gorge Chapter was formerly the Portland Chapter.

NAMESAKES





VINCENT Casey and the Pirates

It existed for only three years, far back in the 1950s, but many still remember Vincent Air Force Base, outside Yuma, Ariz. One reason: the name stirs memories of one of the more colorful and daring officers ever to enter the Air Force.

Clinton D. "Casey" Vincent was Gen. Claire L. Chennault's top fighter commander in China, a P-40 ace, and a general officer at age 29. Milton Caniff, the famed syndicated cartoonist, drew his character in two popular comic strips. He was the stuff of Air Force legend.

Vincent was born in 1914 in Gail, Texas, a tiny windswept town on the High Plains. Casey—no one called him Clinton—was the youngest of 10 children. The Vincents moved on to Natchez, Miss., where Casey grew up and excelled in school.

The star student entered West Point on July 1, 1932. That class produced 48 generals—among them Benjamin O. Davis Jr. and Creighton W. Abrams Jr. Upon graduating in June 1936, second lieutenant Vincent instantly transferred into the Air Corps.

Vincent completed primary flight training and advanced attack training in Texas. By December 1941, he was a major and commanded the 35th Pursuit Group in California.

Then came Pearl Harbor and the Pacific War.

Vincent spent a year in India, but he itched for combat. In late 1942, he joined the China Air Task Force, formerly the "Flying Tigers," run by Chennault. By August 1943, Vincent was a P-40 ace with six victories and was a member of "the Zero Club"—composed of five US pilots who had flown captured Japanese Zero fighters.

His China exploits got Caniff to drawing Vincent as the fictionalized "Col. Vince Casey" in his *Terry and the Pirates* strip. It ran throughout World War II. (Later, Vincent appeared as "Brig. Gen. P. G. 'Shanty' Town" in Caniff's postwar strip *Steve Canyon*.)

In December 1943, the Army Air Forces formed the 68th Composite Wing in China. Chennault put Vincent in charge. He devised bold offensive tactics that stunned Japanese forces. In June 1944, at 29, Vincent reached temporary rank of brigadier general—the second youngest airman to receive a star. He was eight years out of West Point.

Vincent's tour ended in late 1944. He returned to the US, reverted in 1946 to his permanent grade of major, and began another rise in the ranks. He regained the grade of brigadier general in 1951.

July 5, 1955, was Vincent's first full day as deputy chief of staff for operations at Continental Air Defense Command. He went home that night, fell asleep, and suffered a fatal heart attack. He was 40.

On Sept. 1, 1956, USAF bestowed Vincent's name upon Yuma AFB, Ariz. Vincent Air Force Base was the main flying training base for Air Defense Command's F-86 and F-89 interceptor crews and some B-26 drone carriers. USAF closed Vincent in 1959, transferring ownership to the Navy. It soon became Marine Corps Air Station Yuma, which today is USMC's busiest aviation site.

The airfield itself, however, is still "Vincent Field."

1/ Clinton "Casey" Vincent with an F-89 in the early 1950s. 2/ Marine Corps Air Station Yuma, which was formerly Vincent AFB, Ariz. 3/ Brig. Gen. Vincent receives an Oak Leaf Cluster for his Air Medal from Maj. Gen. Claire Chennault.

CLINTON DERMOTT VINCENT

Nickname: Casey Born: Nov. 29, 1914, Gail, Texas Died: July 5, 1955, Colorado Springs, Colo. College: US Military Academy Occupation: US military officer Services: Army Air Corps (1936-41); Army Air Forces (1941-47); US Air Force (1947-55) Main Era: World War II Years Active: 1936-1955 Combat: China-Burma-India Theater Final Grade: Brigadier General Honors: Distinguished Service Medal, Purple Heart, Legion of Merit, Distinguished Flying Cross (3) Air Medal (4) Famous Friends: Claire Chennault, Milton Caniff, John Alison, Tex Hill Buried: Fort Sam Houston National Cemetery, Texas

VINCENT AIR FORCE BASE

State: Arizona Nearest City: Yuma Area of Main Base: 4.7 Sq mi./approx 3,000 acres Status: Closed Opened (by Army as Fly Field): 1928 Renamed Yuma Army Airfield: Dec. 15, 1942

Inactivated: Nov. 1, 1945 Renamed Yuma AFB: Aug 24, 1954 Renamed Vincent AFB: Sept. 1, 1956 Closed (by USAF): June 15, 1959 Reopened by Navy/USMC: June 15, 1959 Renamed MCAS Yuma: July 20, 1962 Current Owner: USMC

Former Owners: US Army (Eighth Corps, 1928-32, Third Army, 1932-42, Flying Training Command, 1942-45, US Air Force—Air Defense Command, 1951-59



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