



NEW YORK WING, CIVIL AIR PATROL



AEROSPACE EDUCATION NEWSLETTER ONLINE

July – August 2022



*Sunset Scene - A Civil Air Patrol Cessna is silhouetted at sunset at the 2017 Johnson Flight Academy in Mattoon, Illinois.
Image Credit – CAP News*

NYW FLIGHT ACADEMY – CADET SOLOS Congratulations Cadets! And thank you to the instructors



C/MSgt Maynard – NY-111
Instructor – Lt Col Brian Benedict



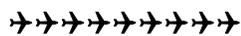
C/1st Lt Melbourne – NY-022
Instructor – Capt Eric Chan



C/Lt Col Szumigala – NJ-003
Instructor – Capt Eric Chan

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CATSKILL MOUNTAIN GROUP HAS TOP-FLIGHT DAY WITH AEROSPACE MEMBER

By Lt Col Bill Martin

Operations Officer, CMG

Last week CMG participated for about the tenth time in the Pine Bush Aviation Academy, an annual summer immersion program for students from the district high school. Each year CMG recruits a new AEM and flies a TOP flight as part of the day spent with their students.

After the first three years when CAP went to the Pine Bush base of operations, the PBA academy has been coming to CMG HQ at Orange County Airport (MGJ). Due to COVID-19, this was the first time the program was held since 2019. Seventeen students, two teachers, and an asst teacher arrived at 0830 hrs on Mon 11 July and spent the day with five members from CMG and NY Wing. With CAP member guidance, students broke into four groups in which they planned and followed the TOP flight, learned about and

managed air/ground communications, researched and presented an AE topic on supersonic flight, and captured the events for a PA presentation at day's-end.

Teacher Jennifer Vittoria had an excellent flight, and her fellow teacher is looking forward to joining as an AEM next year and flying on the TOP flight. Several students also expressed interest in CAP membership and were referred to nearby Orange County Cadet Squadron that was meeting the next evening.

An excellent day for all involved; it was a great way to share our love of aviation with a new generation and get them started on their own journeys. It's easily one of the best parts of being in CAP.

Participation in the Pine Bush Aviation Academy is an element of the CMG External Aerospace Education program. CMG has directed CAP multi-wing participation in five New York Stewart Airshows [2015-2019], along with numerous local/regional Aviation Day events held in Orange and adjacent counties. The CMG External AE Program has been very visible to tens of thousands of airshow attendees, while also directly impacting the lives of many students and others participating with CAP in programs like the PB Aviation Academy

TEACHER ORIENTATION PROGRAM (TOP) FLIGHT INFO FOR EDUCATORS:

[LEARN MORE](#)

One of the most exciting benefits of being a Civil Air Patrol Aerospace Education Member (AEM) is the opportunity to take a Teacher Orientation Program (TOP) flight in a CAP airplane, with an experienced CAP pilot, at a local airport.

[See the TOP Flight Story Here!](#)

ATTENTION: NEW YORK WING AEOS AND SQUADRON COMMANDERS IMPORTANT AEROSPACE EDUCATION ANNOUNCEMENTS

THE QUALITY CADET UNIT AWARD – COMPLETE YOUR AEX AND STEM KIT REPORTS – DUE BY 31 AUG

The [Quality Cadet Unit Award \(QCUA\)](#) recognizes cadet units that display strong program fundamentals. Points are awarded based on an objective list of 10 criteria completed from **01 Sept 2021 to 31 Aug 2022**. Aerospace is one area that can earn points for your unit. If your unit submits an **Aerospace Excellence Award (AEX) Completion Report** or sent in an AAR after ordering a STEM Kit during this award cycle, you earn points. **But you must complete these reports no later than 31 August to count against this year's award.** Submit your reports as soon as possible to make sure your squadron gets credit.

AE SEMINAR AT THE NEW YORK WING CONFERENCE: AEO PRESENTERS NEEDED!

We are planning an AE Senior Member Seminar to be held at the New York Wing Conference in Lake George, on Saturday, 29 October. The Wing AE Department is seeking 1 or 2 AEOs who are interested in serving as the instructors for this session. This is a wonderful opportunity to showcase what you are doing in AE with your squadron and also earn credit toward your Master Rating. (IAW CAPP50-2, presenting at a Wing or Region Conference is one of the requirements). You may present your favorite STEM or AEX activity for a hands-on session! You could share something that was particularly helpful in executing your AE program in your unit - like your best practice. You could talk about something new in AE. The topic is up to you and the session would run 50 minutes. The Wing AE staff will assist you. If you are interested or have any questions, contact Lt Col Anita Martin at amartin31392cap@juno.com

THE SQUADRON AEROSPACE EDUCATION ACHIEVEMENT AWARD

The **2022 Aerospace Education Achievement Award** recognizes squadrons who have excelled in AE for the **fiscal year ending 30 Sept**. It is based on information you enter on your 2022 AE Activity Report. **There is still time to complete your activities and earn this prestigious award. The New York Wing's goal is to have 44 squadrons earn the award (37 squadrons were recognized in 2021).** With the end of FY 2022 fast approaching, we encourage you to act now.

- Criteria for this award may be found in [CAPR 50-1](#), attachment 5
- Criteria are pre-populated by information provided on the AE Activity Report
- To earn the Squadron AE Achievement Award, a squadron must perform eight of the tasks listed on the Achievement Award Requirements.
- Tasks 1, 2, 3 and 4 are required to qualify for the award
- Squadrons must achieve at least one task from each of the AE *internal* and *external* task areas

FROM CAP TO THE USAF ACADEMY

By C/1st Lt Nicholas Realuyo

Phoenix Composite Squadron

I've always known about the service academies, and I have thought about applying since I was around 7th grade when I joined Civil Air Patrol. Initially, I knew the most about the Naval Academy since a good family friend attended and I also knew about West Point since it seems to be the most well-known from what I've seen in New York. It was through CAP that I first learned about the **Air Force Academy**, so I started looking into it more. After a lot more time in High school, CAP Aerospace Education and Leadership sessions, attending encampment and my first NCSA (Cadet Aviation Ground School), and watching my brother (now a Yearling at West Point) apply to the Service Academies, USAFA had made its way to the top of my list.



Image Credit – 1st Lt Realuyo

To receive an appointment to a service academy, candidates need to complete an application to the Academy, receive a nomination from an accepted source (mostly from members of congress and senators) as well as physically and medically qualify. Having watched my brother go through the same process the year before, I knew how to go about completing my application and started putting together a resume and writing essays in late August.

I focused first on the main applications and nominations. Keeping a timeline and being on top of each of the due dates was essential as the senatorial and congressional offices have different deadlines for applying to get a nomination. In writing my essays and preparing for my interviews, I knew that the academies greatly valued leadership demonstrated in extracurricular activities so I focused on how I could demonstrate I was a good leader.

Since I was the Cadet Commander at the time and had spent a few years in CAP, this was much easier for me. The core values and leadership ideas I learned that are important in CAP are also held in high regard by all the Academies and the US Armed Forces overall. My CAP experience also helped me in being a leader in my other activities and I was able to demonstrate this in many essays and interviews.

In the interviews themselves, which came later in the process, I was confident that I could remain composed and give my best answers since I already had an idea of what types of questions they were going to ask. In these interviews, knowledge of the academies and understanding the service requirement is essential. Many questions are geared towards testing whether you would be a good officer in the future and that entails wanting to serve as well as portraying good leadership qualities. Over time, my public speaking and interviewing skills have improved through the many promotion boards and presentations I have given in CAP. These skills and my knowledge of the process helped me confidently complete the interviews, write the essays and earn my appointments and nominations.

There is another additional component to the application that is not seen in many other civilian colleges, the physical qualification. For the Candidate Fitness Assessment (the physical test all applicants need to take), the starting point will be different for everyone. I was in decent shape before I started training, but it did take a lot of work to get myself prepared. It takes a while to train your body to be able to pass the test if you are not in shape and that is not something you can cram into one week. I would advise anyone applying to start training *at least the summer before the application year*.



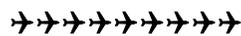
Class of 2026 at the USAF Academy
Image Credit – USAFA Facebook Page

To any cadets who intend to apply to the service academies in the future, here are the most important takeaways I learned through my experience: I know everyone says start early but start even earlier for academy applications. There are more steps, interviews, and essays than most other colleges and universities out there. Also, use what you have learned in CAP.

The skills and experiences I got from CAP prepared me in more ways than I had realized for these applications and interviews. Lastly, don't be humble. I know it is hard for a lot of people because they don't want to brag or come off as arrogant,

applications are where you show who you are. The only thing the admissions offices know about you is what you say to them and write down for them to read. Be proud of your accomplishments.

*Editor's Note: C/1st Lt Realuyo reported for Basic Cadet Training (BCT) on 23 June. BCT wrapped up on 29 July and the cadets now head into transition week and will participate in the Acceptance Day Parade on Friday 5 August when they will officially join the Cadet Wing. **Congratulations C/1st Lt Realuyo.***



LOCAL CAP CADET ATTENDS CYBER EVENT AT THE US AIR FORCE ACADEMY

Maj. Elena MacDermant

Putnam County Composite Squadron, Commander

A local cadet, C/SSgt Eric Song, a member of the **Putnam County Composite Squadron,** recently attended the inaugural year of the **Cyberspace Advanced Administration Course** held at the US Air Force Academy in Colorado.



C/SSgt Eric Song located 2nd from the right
Image Credit – SM Ingrid Song

The program was held the week of June 13 to 18 and provided housing at the Academy Prep School with meals in Mitchell Hall dining facility at the US Air Force Academy giving the CAP cadets a strong feeling of being at the academy. With an opportunity to talk with current AF cadets, this program really gave a nice college perspective to the high school students.

According to C/SSgt Eric Song, the program touched on many aspects of computing that a high school student interested in computers would be hard pressed to find out about. The program covered application stacks, Domain Controllers and

distributed security policies and configuring an email server with all the necessary protocols and programs.

Cadet Song also felt that in addition to the courses and the once-in-a-lifetime opportunity, he was able to meet cadets from Puerto Rico to Idaho, opening his eyes to how different squadrons around the nation operate and the unique experiences various cadets have with CAP and computers. Cadet Song went on to say that, “Learning from the course was a part of this program but learning from my peers was another.”

One prerequisite for attending this event is the National Youth Cyber Education Program, sponsored by the Air and Space Force Association to educate the next generation of patriotic cyber defenders of our nation’s security and infrastructure. This annual event is called CyberPatriot and is held in the fall with teams now beginning to form. The highly competitive event is training a new generation to ensure America is prepared to defend its national security from the air, land, sea, space, and cyberspace.

Details can be found at www.uscyberpatriot.org. The CAP Putnam County Composite Squadron is forming teams starting in August. It is free to all cadet members. The curriculum is college and college graduate materials taught on a high school level.

More information about this program and other programs within Civil Air Patrol can be found on the website: gocivilairpatrol.com. You can also contact the Putnam County Composite Squadron directly.



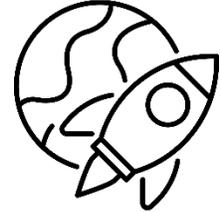
*C/SSgt Eric Song located 2nd from the right
Image Credit – SM Ingrid Song*



AE EDUCATOR 101
By Lt Col Anita Martin
Director Aerospace Education



Reprint Reminder - Background: When the **CAP School Program** was started, squadrons were not staffed with experienced CAP officers but with school educators who operated on a yearly curriculum. To help the teachers navigate through the required curriculum, a school training plan was given to them when the school squadron was chartered.



Today, that **Training Plan** is available to all units and is located on the CAP website, under “Cadet Programs” and in the “Cadet Library.” Scroll down and it is located on the right side of the screen and is called the “[Squadron Training Plans](#).” This is a full 24-month plan going through the first two leadership books along with applicable leadership activities; all six Aerospace Dimensions Modules also with applicable activities; Model Rocketry and AEX! Civil Air Patrol Drug Demand Directorate’s Fit for Flying and Let’s Go Flying are also included!

→→→ ATTENTION! THIS JULY - AUGUST ISSUE WILL GIVE YOU FOUR BANGS FOR YOUR BUCK. READ ON!

July is the 7th month in the Training Plan, suggesting **Aerospace Dimensions 4.2 - Rocket Principles**. The “Leader Guide” (which may be found under AE Dimensions 5th Edition) suggests: “Explain that understanding scientific principles can help one understand visible and sometimes invisible phenomena around them. By understanding information in chapter two, not only will they learn about scientific concepts, but they will be able to understand the application of those scientific concepts in rocketry, which will ultimately help them understand how a rocket works.” If you demonstrate with **Activity Five - 3-2-1- POP**, you will notice that this is the same as **Activity Three in 2010 AEX II Vol I, Fizzy Flyer**.



This activity uses film canisters to make a rocket with Alka-Seltzer tablets. The correct type of film canister is those with inside fitting tops. Since we don’t use film any longer saving film canisters is not an option. You will have to consider ordering them from one of the following suppliers:

<http://www.teachersource.com/Energy/EnergyConversion/RocketFilmCanisters.aspx>

<http://www.sciencebobstore.com/products.php?product=Bulk-Film-Canisters-for-Rockets>

<http://www.stevespanglerscience.com/product/flying-film-canisters>

***That’s TWO bangs for your buck! One for Aerospace Dimensions lesson and one for AEX!
Don’t stop ... read on!***

ATTENTION! Your unit can participate in the Model Rocketry Program in conjunction with this AE Dimension Rockets study. During the next couple of months conduct the **Redstone Hands-on Option One**, which uses the “Fizzy Flyer”. **That’s THREE bangs for your buck!**

You could also use the “Fizzy Flyer” for an open house project. It then becomes an External Aerospace Education activity that satisfies your SUI requirement. **That’s FOUR bangs for your buck!** It is a “Take Home” aerospace education activity reminding them of the role and impact of the Civil Air Patrol!

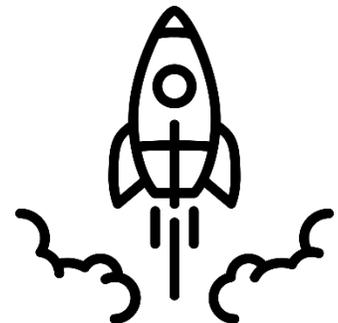
If you are in a Senior Squadron, this is an adult activity that has been incorporated in the Region Aerospace School because it is so much fun for adults, too! Always remember to spread plastic garbage bags to make cleanup easier. *Editor’s Note: Use a paper plate as the launch pad. It collects the residue from the Alka seltzer rocket.*

August is the 8th month in the Training Plan, suggesting Aerospace **Dimensions 4.3 - Rocket Systems and Controls**. In the current 4th Edition, it is **Rockets and Private Space Travel**. It does, however, contain the same activities as previous editions. Again, if you choose Activity Eleven - **Bottle Rocket and Bottle Rocket Launcher**, you will notice this activity is the same as 2010 AEX II Vol II - Scratch Built Air Rocket. **Again, there are your TWO BANGS for your buck.**

This activity allows students to construct a rocket out of a 2-liter bottle (or smaller plastic drinking bottle). The rocket is propelled using air and water pressure. Directions are included for building a rocket launcher for this type of plastic bottle rockets. You may do an online search for directions for other homemade rocket launching devices. If you do not wish to build a rocket launcher, consider purchasing one that requires little or no assembly. Prices can range from fairly reasonable, such as the AquaPod Bottle Launcher available for about \$40 (at: theaquapod.com) to more expensive models available from Pitsco Education for about \$140 at <http://shop.pitsco.com/store/detail.aspx?ID=1179&bhcp=1>. For a complete lesson plan that provides a more real-world experience in designing and launching rockets, as well as one that can be scored, go to http://www.nasa.gov/pdf/153416main_Rockets_Project_X51.pdf. And Amazon has a Stomp Rocket launcher with 6 rockets for \$20 as another option.

Again, it is a great idea to provide your unit with Model Rocketry in conjunction with the Rockets module. The Redstone Optional Project “scratch-Building a Bottle Rocket Launcher” is the exact activity as the above. This will give you **THREE BANGS** for your buck in August.

Look for listing of all Model Rocket Associations in NY on pages 18-19 of this newsletter.



AE SAFETY CHECK

This safety nugget comes from **Lt Col Karen Cooper**, who works in safety and risk management on the AE National Headquarters Staff and is also the Northeast Region DCS for Aerospace Education. *Reprinted from the July 2022 issue of CAP Aerospace Education.*

ROCKETRY LAUNCH SAFETY



Image Credit – Civil Air Patrol

The weather is nice, and you are moving your AE activities outside! One of the things many of you are considering is rocketry. But before you do – you must be familiar with the safety aspects of rocketry. CAP's two Advanced Model Rocketry modules qualify as 'high powered' rocketry. High power rocketry is defined and/or regulated by three distinct entities: the National Association of Rocketry (NAR) and Tripoli Rocketry Association (TRA); the National Fire Protection Association (NFPA); and the Federal Aviation Administration (FAA).

It is the responsibility of the Qualified Senior Member (QSM) to see that the NAR SAFETY code guidelines are followed in all model rocket launches. The cadet must demonstrate NAR Safety code proficiency, follow a set pre-flight checklist, and execute the launch and recovery in a safe manner. These codes are available in the Model Rocketry document available on the AE Download page. Safety observers are also encouraged. [see: <https://www.nar.org/safety-codes-2/>]

SAFETY NOTE: CAP squadron members are given clear safety briefings on the [CAP NCSA & Encampment Safety webpage](#), and in CAPR 62-1. You can easily access/read/use the two pertinent activity safety documents in the Related Links section of this page.

Remember: SAFETY, SAFETY, SAFETY!!!!

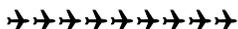


Image Credit – Airplanes Online

AIRCRAFT IDENTIFICATION QUIZ

Can you identify this aircraft?

The first two correct answers received via email to capaerospace@gmail.com will receive a special space patch.

Hint: This aircraft, the first operational supersonic bomber, was put into service by the USAF in 1960

HIGH-ALTITUDE BALLOON CHALLENGE LAUNCHES AUGUST 13: WILL YOU BE WATCHING? HERE ARE THE DETAILS

Reprinted from the July 2022 issue of Aerospace Education

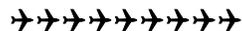
Civil Air Patrol's second annual [High-Altitude Balloon Challenge](#) for CAP cadets will take to the skies on Saturday, Aug. 13, in central Indiana. Teams from 176 squadrons across all U.S. CAP regions have been planning and submitting their unique test experiments, which will ascend to the edge of space as part of the payloads attached to high-altitude balloons. The launch event will be livestreamed worldwide on CAP's [Aerospace Education YouTube channel](#) operated by Capt. Bob Roberts, HAB Challenge project director and South Carolina Wing director of aerospace education.

Col Joe Kittinger, HAB Ambassador, will be viewing this event and providing commentary from Orlando with Florida Wing cadets who will be joining him.

The Indiana Wing will be conducting an on-site Search and Rescue Exercise to track and retrieve the payloads as a part of this program's intent to combine all three CAP missions into one exciting STEM Challenge for the cadets. Squadrons, schools, and families across the country will be holding watch parties to view the exciting launch activities in real time. **Livestreaming is scheduled to start at 10:30 a.m. EDT on Aug 13.**

The direct link to the live-streamed event is https://youtu.be/soL5HH_0Pw4.

Plan your own watch party now. If your watch team would like to "go on screen" and cheer the soaring experiments during the event, email the HAB team at HAB@capnhq.gov with your team's plans and perhaps you will see yourselves on the HAB live feed!



NEW CIVIL AIR PATROL LOGO

Civil Air Patrol is being transformed. Its level of sophistication has advanced significantly in recent years. For example, CAP's fleet is being transformed from 'steam gauge' to 'glass' cockpits that can be programmed to display and to fly CAP search grids. A similar level of sophistication touches every aspect of Civil Air Patrol: IT (Innovation), philanthropy (the CAP Foundation), cadet programs (Cadet Interactive), aerospace education (STEM: science, technology, engineering, and math), member education and training (Volunteer University), chaplain corps (resiliency programs), and now marketing too.



Over the past two years, Marketing and Strategic Communications (MAC) has been working to better align the CAP brand as a Total Force partner. The USAF Auxiliary's new logo tells a brand story about aviation, volunteerism, partnership, and heritage and projects a more youthful, modern, Air Force-style look. The new Civil Air Patrol logo was introduced June 30. It features a new 'Flying V' symbol. To learn the meaning of the new logo [here](#).

STEM KIT UPDATE

Reprinted from the July 2022 issue of CAP Aerospace Education

FEATURED STEM KIT - INDOOR QUADCOPTER



Image Credit - Civil Air Patrol

The Indoor Quadcopter STEM Kit includes everything you need to fly a quadcopter indoors. Switch on the included receiver, plug in a battery to your quad, follow the bind procedures, turn on your goggles and fly! The Indoor Quadcopter STEM Kit is compact and portable, easy to charge, and all the components fit perfectly inside the included carrying case.

Items included in this kit: Removal tool, micro props 0.8 mm shaft (set of four-2 sets), 6 mm brushed motor X 1, lite flight controller, camera set, cockroach super-durable frame, carrying case, controller box goggles, battery charger, batteries (4), screwdriver and miscellaneous items (antennas, cables, screws, etc.). This kit is recommended for ages 10 and older. The FAA requires TRUST certification for all operators. Read how to get certification [here](#).

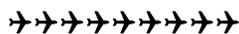
Items included in this kit: Removal tool, micro props 0.8 mm shaft (set of four-2 sets), 6 mm brushed motor X 1,

Aviation Connection:

Youth can fly this remote-controlled quadcopter to learn more about the dynamics and forces of flight. Learning to fly this quadcopter will give cadets and students the opportunity to explore the thrill of potential careers in the use of remotely piloted aircraft (RPA) or small Unmanned Aerial Systems -- (sUAS). Having youth suggest various jobs this indoor quadcopter can do to be beneficial to people will allow further exploration of potential sUAS careers.



Image Credit - Civil Air Patrol



Impact of CAP's STEM Kit Program

The STEM Kit program continues to set new records!

Totals so far for fiscal year 2022 (for STEM kit applications received through May 2022)

Filled over 2,600 applications

Distributed over 6,200 STEM Kits

Reached over 190,000 participants

Totals since 2013 (for STEM Kit applications received through May 2022)

Filled over 21,000 applications

Distributed 41,000 STEM Kits

Reached over 2 million participants

To order a STEM Kit - Use your CAPID# and password to log into eServices and fill out the application. If you need assistance, please don't hesitate to email stem@capnhq.gov

[For more on all the kits available, please click this link.](#)

80% of participants are more interested in STEM after being involved in the STEM Kit program!

<p>NYW QUARTERLY AEO MEETING Mark Your Calendar! The next New York Wing Quarterly AEO Meeting is scheduled for <u>Monday, 22 August 2022</u> from 1930 to 2030 hours. <i>(Originally scheduled for 25 July.)</i></p> <p>The topics to be discussed include:</p> <ul style="list-style-type: none"> - NYW 2022 AE Goals <ul style="list-style-type: none"> o Status - QCUA Status - Status of Squadron AE Programs <ul style="list-style-type: none"> o AEX o Squadron AE Achievement o STEM Kits - NYW Conference (Oct) - AE Display Competition - Open Discussion <ul style="list-style-type: none"> o Successes o Challenges o How can NYW help <p><i>Look for the invitation later in August.</i></p> <p><u>Use this link to join the meeting.</u></p> 	<p>MARK YOUR CALENDAR!</p> <p>NEW YORK WING CONFERENCE 28 to 30 Oct 2022</p> <p>Fort William Henry Hotel & Conference Center Lake George, NY</p> <p>Don't Miss This Opportunity to Learn and to Network</p> <ul style="list-style-type: none"> • Meet and greet opportunities with the new NY Wing Commander • Banquet and cocktail hours with your peers and NY Wing Staff • Specialty Track Seminars for CAP disciplines • Cadet AE Display Competition • Food, Drink, Socializing and Fun!! <p>... And much more</p> <p><i>Look for more details on the NYW Webpage and for your invitation.</i></p>
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AE DOWNLOADS & RESOURCES

<https://www.capnhq.gov/CAP.AEDownloads.Web/>

The Civil Air Patrol's Aerospace Education Program offers many resources that are free to its members, and it includes a series of



engaging and hands-on aviation and space-related activities for both cadets and senior members. One program is called AEX, and the acronym stands for "Aerospace Education EXcellence". AEOs can request full-color books that feature national standards-based aerospace activities or download them in **AE Downloads and Resources**.

BLUE ANGELS NAME FIRST FEMALE F/A-18 PILOT IN SQUADRON'S HISTORY

By Rachel Nostrant

Reprinted from Navy Times – 20 July 2022



Image Credit

Chief Petty Officer Paul Archer/US Navy

The famed Navy flight demonstration squadron, the Blue Angels, selected their first female F/A-18E/F demo pilot this year following the completion of the Pensacola Beach Air Show on July 9. US Navy Lt. Amanda Lee was named alongside five other officers as the newest members of the 2023 Show Season for the Blue Angels.

Lee, a native of Mounds View, Minnesota, will join the ranks of countless other women who have served in other capacities with the Blue Angels for the last 55 years, the Navy said in a press release. She will serve the

Blue Angels alongside three other women currently on the team serving as a flight surgeon, public affairs officer and event coordinator.

Lee, who is currently assigned to Strike Fighter Squadron 106, also has another notable first attached to her resume. She participated in the first all-female flyover in 2019 as part of the funeral service for retired Capt. Rosemary Mariner, the first woman to command a naval aviation squadron.

“When I come into the ready room right now, I’m a pilot first, a person second, and my gender really isn’t an issue,” Lee said in a Navy press release at the time. “It’s women like Capt. Mariner that have paved that way for us, so it’s really a huge honor. I’m super humbled to be a part of this flyover in her honor.”

The U.S. Navy Flight Demonstration Squadron, the Blue Angels, selected six new officers to join the team for the 2023 air show season. Navy and Marine jet pilots with an aircraft carrier qualification and a minimum of 1,250 tactical jet flight-hours are eligible to fly jets Number 2 through 7, while Number 8 is reserved for a naval flight officer or naval aviator who has finished their first tour.

Marine pilots selected to fly the C-130J Hercules aircraft, affectionately called “Fat Albert,” must be an aircraft commander with at least 1,200 flight hours. There are currently 17 officers serving with the Blue Angels, according to the team’s website.



Image Credit

Chief Petty Officer Paul Archer/Navy



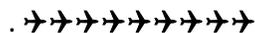
Lt. Amanda Lee, center, at Naval Air Station Oceana in Virginia Beach, Va., in 2019. Image Credit – US Navy

The new Angels will report to the squadron in September and, after the completion of the 2022 show season, will complete an intensive five-month training program at NAS Pensacola and Naval Air Facility El Centro, California, in preparation for next year’s show season.

“We had an overwhelming number of applicants from all over the globe this year,” commanding officer and flight leader of the Blue Angels, Capt Brian Kesselring said. “We look forward to training our fantastic new team members, passing on the torch, and watching the incredible things this team will accomplish in 2023.”

Also selected in addition to Lee were Lt Cmdr Thomas Zimmerman, F/A-18E/F Super Hornet pilot; Lt Cmdr Brian Vaught, events coordinator; Lt Cmdr Greg Jones, maintenance officer; Lt Philippe Warren, flight surgeon; and Marine Corps Capt Samuel Petko, C-130 Demonstration Pilot.

While Lt Lee is the first woman demonstration pilot with the Blue Angels she is not the first woman pilot to fly with them. That honor goes to Marine Corps Maj Katie Higgins Cook. In 2015 she began flying ‘Fat Albert’, the big C-130 cargo plane that opens every Blue Angel show, flying 40 feet off the ground at about 370 miles an hour!



NEW YORK WING AEROSPACE EDUCATION GOALS – 2022

- Increase the number of Squadrons that earn the **Squadron Aerospace Education Achievement Award (SAEAA)** by 20%: **Goal for FY22 – 44 Squadrons**
 - 37 Squadrons earned the SAEAA in FY21 (COVID adjusted criteria)
- Increase the number of Squadrons that order **STEM Kits** from NHQ and complete the evaluation report by 20%: **Goal for FY22 – 29 Squadrons**
 - 24 Squadrons ordered STEM kits and completed the evaluation reports in FY21
- Increase the number of Squadrons that complete the **Aerospace Excellence Award (AEX)** by 25%: **Goal for FY22 is 33 Squadrons**
 - 27 Squadrons completed the AEX program in FY21
- Publish 6 bi-monthly issues of **Wing Tips**
- Hold 4 quarterly Wing AEO Meetings
- All NYW AEOs hold the Specialty Track Tech Rating



AVIATION AT THE NEW YORK WING ENCAMPMENT

The **New York Wing Encampment 2022** concluded with a graduation ceremony on Sunday, 31 July. The weeklong encampment is one of the most important and memorable activities experienced by a cadet during their time in Civil Air Patrol. The cadet encampment enables cadets to develop leadership skills, investigate the aerospace sciences and related careers, commit to a habit of regular exercise, and solidify their moral character. Along with the many skills the cadets learned, they had an opportunity to see and tour many of the aviation assets of the USAF and Air National Guard. **Congratulations to all of the cadets!** And it looked like you had a lot of fun.



TOURING A CHINOOK HELICOPTER



**VISITING WITH THE 914TH
AIR REFUELING WING**



SEEING THE AH-64 APACHE CLOSE-UP



TOURING THE C-17 GLOBEMASTER III



**HOW MANY ENCAPMENT CADETS CAN FIT
INTO THE C-5 GALAXY CARGO BAY?**



**ASPIRING PILOTS ON THE FLIGHT DECK OF
A C-5 GALAXY**

A MESSAGE FROM THE EDITOR

Maj Burt Dicht

New York Wing, Internal AEO

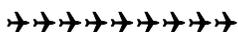


Is it just me, or does time seem to be flying by? (No pun intended) Even with the pandemic restrictions, it seems like the last few years are just a blur. And now as we begin August, the end of another CAP fiscal year is fast approaching. With just two months to go in FY2022, how are you doing in accomplishing your AE goals? Unfortunately, we can't go back in time and make up for what we missed.

So don't approach the next two months as a obstacle to your goals, view them as an opportunity to make the most of the time left to accomplish the goals that are within your reach. On page 3, we listed several important milestones and opportunities. Make the most of these remaining two months and act. For example:

- If you have cadets, complete your AEX and STEM kits and file your reports before 31 August, so you can gain additional points for the Quality Cadet Unit Award.
- Review the status of your Squadron AE Achievement Award for 2022. You can do this in eServices. Exam the gaps and plan the additional activities needed to get the award. These next two months can be used very effectively.

If you need any assistance reach out to your Group AEO or contact us at the Wing AE department. We can offer suggestions to help you finish the year strong while at the same time you are adding value to your cadets, senior members, and the community. **Wishing you success with your remaining AE activities.**



AE PLANNING – IMPORTANT UPCOMING DEADLINES

Item/Activity	Due Date
AEX Completion Report for QCUA point	30 August
STEM Completion Report for QCUA point	30 August
AEX Completion Report	30 Sept
STEM Completion - 30 Sept	30 Sept
AEX Application (FY 2023)	1 Oct
STEM Application (FY 2023)	1 Oct
Squadron AE Activity Report (FY 2022)	30 Oct
Nominated AE Awards - Squad to Group	15 Dec
Nominated AE Awards - Group to Wing	15 Jan 2023
AFA AE Cadet of the Year Award	15 Jan 2023

LOGIC AND PUZZLE SECTION

In each *Wing Tips* issue, we are providing you with a Critical Thinking Puzzle. **This puzzle comes from The Mini Book of Logic and Puzzles.** The Civil Air Patrol believes that “Critical Thinking” is a valuable skillset for leaders and cadets, and it devotes a whole chapter to it in the LEARN TO LEAD: VOLUME TWO: TEAM LEADERSHIP, Ch 5: Brain Power for Leadership; Principles of Critical Thinking.

AND THE QUESTION IS

Work with a partner. What questions can you ask for each answer?

Example: Answer: **Books**

Questions:

- A. What might you find in a special store?
- B. What can you use to help you find information?
- C. What can usually be found in any classroom?
- D. What can be used to help tell a story?

Answer: **Constellations**

- A.
- B.
- C.
- D.

Answer: **Black hole**

- A.
- B.
- C.
- D.

Answer: **Astronauts**

- A.
- B.
- C.
- D.

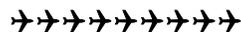
Brainstorming / Flexible Thinking

ADDITIONAL AE RESOURCES
MODEL ROCKETRY CLUBS IN NEW YORK

	<p><u>Albany-Schenectady-Troy Rocket Enthusiasts (ASTRE) #471</u></p> <p>www.astre471.org Delmar, NY 12054 -- (518) 439-2055</p>
	<p><u>Long Island Advanced Rocketry Society (North Shore) #142</u></p> <p>www.liars.org/ Plainview NY 11803 -- (516) 650-0595</p>
	<p><u>Lower Hudson Valley Challenger CTR Rocketry www.ramapoparks.org/page/challenger-learning-center-3.htmlub (LHVCC) #691</u></p> <p>Airmont, NY 10901 -- (845) 357-3416</p>
	<p><u>Monroe Astronautical Rocket Society (MARS) #136</u></p> <p>marsclub.org Geneseo, NY 14454 -- (716) 379-3190</p>
	<p><u>NAR of Buffalo and Western NY (URRG) #765</u></p> <p>http://urrg.us/ Youngstown, NY 14174 -- (716) 628-1880</p>
	<p><u>Onteora Rocket Club (ORC) #862</u></p> <p>www.nar.org/local_club/onteaora-rocket-club-orc-862/ 84 Tinker Street, Woodstock, NY 12498 (845) 679-2862</p>

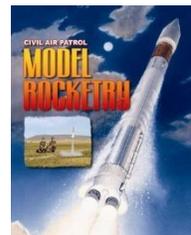
	<p><u>Rensselaer Rocket Society (RRS) #835</u></p> <p>http://rrs.union.rpi.edu/</p> <p>Troy, NY, 12180</p>
	<p><u>RIT Launch Initiative (RIT) #808</u></p> <p>http://launch.rit.edu/</p> <p>72-4190Lomb Memorial Drive, Rochester, NY, 14623</p>
	<p><u>Syracuse Rocket Club (SRC-NY) #566</u></p> <p>http://www.syracuserocketclub.org/</p> <p>Rome, NY 13440</p>
	<p><u>Western New York TARC (WNY TARC) #907</u></p> <p>https://www.nar.org/local_club/western-new-york-tarc-wny-tarc-907/</p> <p>East Aurora, NY 14052 -- (716) 983-2398</p>
	<p><u>Woodstock Rocket Club (WRC) #805</u></p> <p>https://www.nar.org/local_club/woodstock-rocket-club-wrc-805/</p> <p>Woodstock, NY 12498 -- (845) 706-5239</p>

To find a model rocketry club near you Go to: <https://www.nar.org/find-a-local-club/nar-club-locator/>



CAP'S MODEL ROCKETRY PROGRAM

CAP's Model Rocketry program is an achievement program for cadets interested in the science, technology, and flight of model rockets. There is the **Basic Model Rocketry** program and badge, as well as the **Advanced Model Rocketry** program. For more information on the program and resources go [here](#).

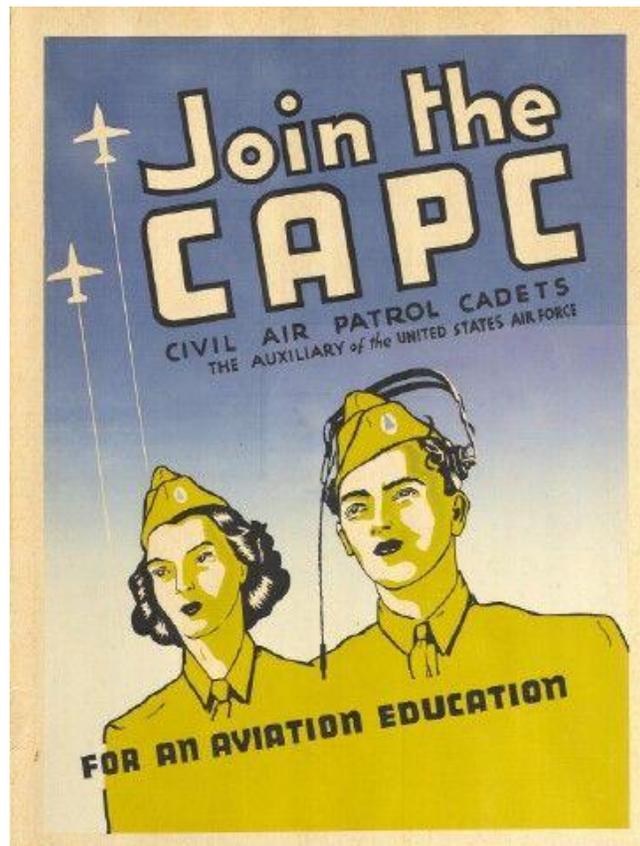
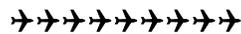


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Lt Col Anita Martin, NYW DAE; Lt Col Marilyn Rey, NYW DAE Emeritus.
Lt Col George Geller, Asst Internal AEO; Maj Burt Dicht, Internal AEO



For questions or comments about any of this issue's topics or contributions to a future issue, please email: amartin31392cap@juno.com or capaerospace@gmail.com



Historic poster from the CAP archives; Image Credit – CAP and Pinterest

*Volunteers Serving America's Communities,
Saving Lives, and Shaping Futures*