

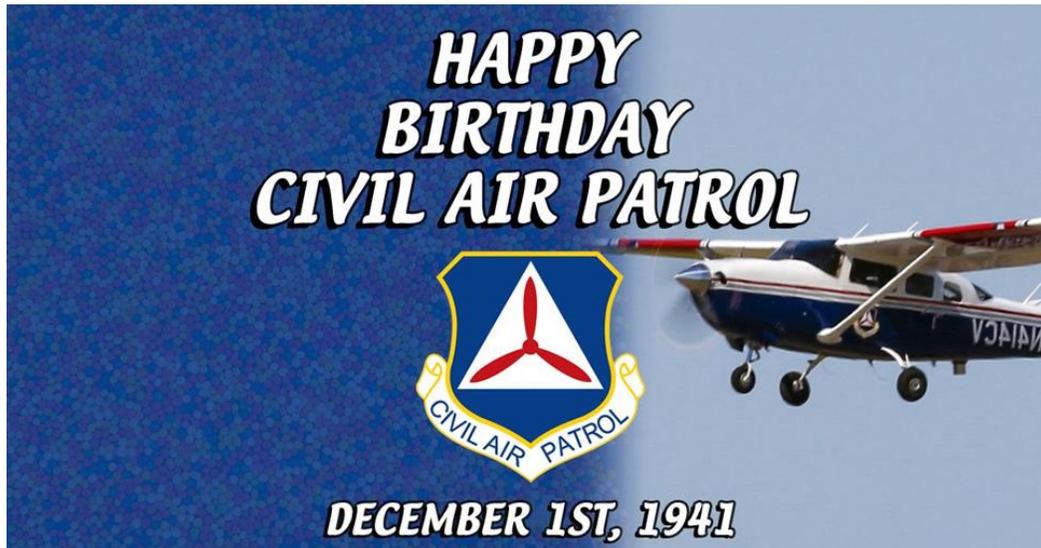


NEW YORK WING, CIVIL AIR PATROL



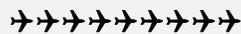
AEROSPACE EDUCATION NEWSLETTER ONLINE

November – December 2021



100% SUCCESS - ANNUAL AE ACTIVITY REPORT

We are excited to report that all of the squadrons in the New York Wing completed and filed their **2021 AE Activity Report**. A special thank you to the AEOs and commanders who responded quickly and filed these important reports. Sharing this information and highlighting your activities, especially the “**Above and Beyond**,” demonstrates our commitment to aerospace education and the impact the CAP is having in furthering its AE mission.



AEROSPACE EDUCATION EXCELLENCE (AEX) PROGRAM

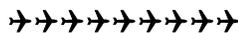
Has your squadron submitted their 2020-21 AEX program activities? If not, you still have time to complete the AEX Award Report. Activities must have occurred Oct. 1, 2020 - Sept. 30, 2021.

Also, make sure your squadron applies for the 2021-2022 AEX Award Program in eServices. AEX program activities should take place from **Oct 1 to Sept 30 each year**. During COVID-related restrictions on in-person meetings, virtual meetings using any AEX activities or virtual conferences and/or field trips may be used to complete the requirements.

[To learn more about the AEX Program use this link.](#)

INSIDE THIS ISSUE

Annual AE Reports and AEX Reminder	Page 1
The State of the NYW AE Mission	Page 2
Civil Air Patrol Holiday Cards	Page 2
Wings Program Scholarships	Page 3
Wings Program Status	Page 4
AE Educator 101	Page 5
2021 Squadron AE Achievement Award	Page 6
Recognize Your Colleagues – AE Awards	Page 7
STEM Kit Updates	Page 8
AE Safety Update	Page 8
Quarterly AEO Meeting	Page 9
CAP 80 th Anniversary Resources	Page 9
AE Resources and Downloads	Page 9
CAP Timeline Flight	Page 10
Aviation History Series.	Page 11
In the News – Maj Michelle Curran	Page 13
In the News – NYW Members Honored	Page 14
Message from the Editor	Page 15
Logic Puzzle and Solution	Page 16
Wing Tips Editorial Staff	Page 18



THE STATE OF THE NEW YORK WING AE MISSION

Lt Col Anita Martin

Director Aerospace Education

All units have completed their Activity Reports (AR) and we now await approvals from the group commanders. Some of your Above and Beyond documents were awesome in what you were able to accomplish this past year. Good going!

I noticed units are still not understanding that **the meeting with the unit commander and the Aerospace Officer is a requirement.** Some units answered “no” to the AR question asking if it was done. The NYW Unit POA lists requirements toward the AE Achievement Award but it (or something similar) must be shown to the SUI Inspector, either in hard copy or digital. If it is not done before the inspection, it will have to be done after the inspection.

Both the AEO and CC need to sign to satisfy the SUI AE Tab question. **The [NYW Unit POA](#) should be filled out ASAP at the start of the new Fiscal Year.**

Several units have not completed their STEM Kit evaluations or AEX reports. It is too bad to do all that work to then not finish to get the credit. If you haven’t signed up for **FY 2022 AEX**, go ahead and do that now. If you haven’t filled out STEM evaluation, go ahead and do that now and then order another. If you have an assistant, enlist their help and if you don’t, seek one out. There’s plenty to do for both of you.

We have a number of AEOs with no rating. You only need six months and your check list completed. Take a look at your check list to see what you need to do to advance. When you submit your POA to me you can check that off for Technician. Then complete another six months and your checklist! If you did this 2021 Activity Report you can fill that in for the Master rating.

We will be setting up TOP flights for our AEMs and will need all hands on deck to get them flown. That’s another check off for the AR. If you haven’t recruited an AEM, look around. Your children’s (grandchildren’s) teacher may be a good candidate. **Good luck on your upcoming year.**

CIVIL AIR PATROL HOLIDAY CARDS “NORTHERN LIGHTS” [Order from Vanguard](#)





CADET WINGS SCHOLARSHIP

ATTN: ALL NYW CADETS!

C/Capt Matthew Gestring

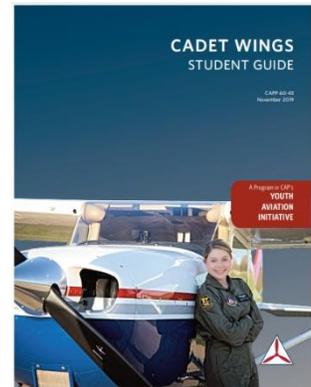
NYW CAC Vice-Chair

Cadet Deputy Commander

*Editor's Note: AEOs, please share
this important information to your cadets*

The NYW Cadet Advisory Council would like to remind you, yes you, about the WINGS scholarship which is open right now! The Wings Scholarship is funding for your flight training via the Civil Air Patrol and can get you all the way to your private pilot's license. You may be asking why we decided now to remind you, and that's an easy question. **Applications are open until 31 December 2021!** The WINGS application is live on [eServices](#) and you are free to apply. While this may seem easy, we want to provide a few reminders on the requirements for applying. Please make sure you keep these things in mind when applying:

- **In applying for this scholarship, there are prerequisites.** These include: Having a current solo endorsement (having your first solo), completing the FAA knowledge test, and having your FAA medical completed (3rd class medical). While this is not the entire list of what you need, these are things to get working on ASAP because these may take a lot of time to accomplish. For a full list of requirements (and just general information), please refer to [CAPP 60-43](#) which is the **Cadet Wings Student Guide**. This document is your complete guide to applying and if you are thinking about applying, we suggest **YOU READ THE WHOLE PAMPHLET!** It is only 15 pages and it is packed with what you need to succeed. It also has a lot of important deadlines that you must meet in order to be considered, so please become familiar with the Wings Guide!
- **As previously mentioned, there is a strict deadline for applying, 31 December.** While this is the deadline, we HIGHLY suggest getting everything in early. This gives some time to troubleshoot issues in the application and gives a buffer to make sure you don't miss the cutoff. **It is up to you, the cadet applying, to make sure the deadline is met and you are responsible for getting all of your required documents submitted.** If you have any questions about this, please ask your CAP Flight instructor or your squadron AEO.



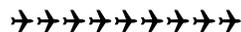
- You will find the application on [eServices](#). To get to the application on eServices, *open the “Menu,” select “Cadet Programs” in the drop-down menu, then select [CAP CadetInvest](#), then click the maroon colored “CAP CadetInvest” drop down on the top left, and finally click “Apply for CadetInvest” to start your application!*

Another thing you should be working on right now along with your flight accomplishments is your overall cadet performance. As you will see, CAPP 60-43 outlines a point system on which applicants are scored. The more points you have, the more likely you are to get the scholarship. While most of these items take time to accomplish, there are a few tasks that are attainable within the application window. Some suggestions we have are working on your promotions, especially if you are close to a milestone. Milestones come with a lot more points. We also suggest making sure your grades in school are outstanding and your CAC positions (if you serve on the council) are entered into eServices. Both of these can help your chances of getting selected for this scholarship.

Finally, if you are looking into applying but don’t have anyone to answer your questions, don’t worry! If you find yourself in that situation, you can always reach out to **Mrs. Margarita Mesones-Mori, the Cadet Aviation Career Activities Manager at cadetwings@capnhq.gov**. She will be your first line of communication for any application questions. Along with Mrs. Mesones-Mori, you can find many other key contacts in CAPP 60-43.

The Civil Air Patrol wants to see you succeed in your aspirations to fly and will do everything in its power to get you to your dream. We hope this guide helps you in your application journey and the best of luck in applying.

**Blue skies and tailwinds,
Your NYW Cadet Advisory Council (CAC)**



WINGS PROGRAM STATUS

Since the program’s inception, 141 cadets (as of 17 November 2021) have earned their private pilot’s license. Nine are from the New York Wing. Here are the most recent NYW graduates since August. **Congratulations to our newest aviators!**



Grant Becker (#141)
November 17, 2021



Calvin Przybysz (#127)
August 25, 2021



Zachary Derck (#122)
August 16, 2021



AE EDUCATOR 101

Lt Col Anita Martin
Director Aerospace Education

Background: When the CAP School Program began, it typically was staffed with school educators who operated on a yearly curriculum. To assist the teachers, a school training plan was given to them. Today, that training plan is *available to all units* and is located on the CAP national website, in the Cadet Library. Go to:

www.qocivilairpatrol.com/programs/cadets/library

This is a full 24 month plan to get through the first two leadership books (along with applicable leadership activities), all six AE Modules (also with applicable activities), model rocketry and AEX! We want to give you ways to extend your AE training to receive more credits for less work!

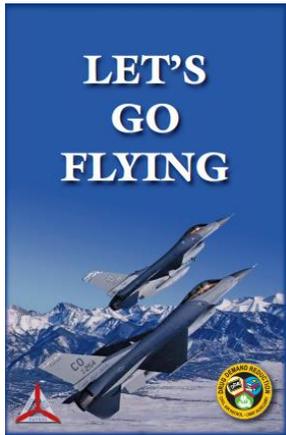
→→→ This **November/December Wing Tips** will follow the reference, **National's Cadet Programs' Squadron Training Plan**, found in eServices, Aerospace Downloads and Resources, for the 23rd and 24th months. This will complete National's two year schedule that includes the first two leadership books with activities, all six aerospace modules, physical fitness and Aerospace Excellence along with the Fit for Flying Drug Demand Reduction Books.

This **23rd Month (November)** schedules **Aerospace Dimensions (AD) Module 6, Chapter 3, Working in Space**. This chapter deals with the immediate future in space. It concentrates on space stations, living in space and spacesuits. Space exploration will continue in the future and space travel will likely become even more commonplace. With that in mind, it makes sense to learn more about what is destined to be a large part of our future lives.



Activity Six – How does Motion Cause Disorientation? The results of this activity are that motion causes disorientation and sight is one of our senses that help us stay oriented. This is very similar to the **AEX for Senior Members Activity Four – Build the NASA Barany Chair**. Objective: To investigate the effect of disorientation on the human body during flight in the atmosphere or in space.

This gives you a Two-fer-One: Aerospace Dimensions and AEX credit!!

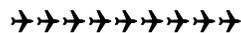


The 24th Month (December) once again schedules the booklet, **Let's Go Flying (AGF) -- Part Six** –Interviews with Aviation Professionals. This chapter interviews six different pilots who took six different paths to become pilots. These are real pilots telling their real stories.

The Instructor's Guide Part Five Drug Issue: Get high on aviation; not on drugs or alcohol!

Let's Go Flying and Let's Go Flying Instructor Guide can be found at: <https://www.gocivilairpatrol.com/programs/cadets/activities/cadet-flying/lets-go-flying/>

This always gives you a Two-fer-one: Aviation lesson with a Drug Demand Lesson!



CONGRATULATIONS! – 2021 SQUADRON AE ACHIEVEMENT AWARD

The **Squadron Aerospace Education Achievement Award** recognizes squadrons who have excelled in AE for the fiscal year. The following squadrons in the **New York Wing** were recognized in 2021. **66% of all NYW units earned the award this year – that's 37 out of 56 squadrons!** Congratulations to the AEOs and commanders for implementing an impactful AE program.

<ul style="list-style-type: none"> • NER-NY-022 - BUFFALO COMPOSITE SQUADRON #1 • NER-NY-030 - ORANGE COUNTY CADET SQDN • NER-NY-033 - PUTNAM COUNTY COMPOSITE SQUADRON • NER-NY-048 - WESTCHESTER CADET SQDN 1 • NER-NY-073 - SCHENECTADY COMPOSITE SQDN • NER-NY-111 - NEWARK COMPOSITE SQUADRON • NER-NY-116 - NIAGARA FALLS COMPOSITE SQDN 1 • NER-NY-147 - ACADEMY CADET SQDN • NER-NY-153 - LEROY R. GRUMMAN CADET SQUADRON • NER-NY-159 - DUTCHESS COUNTY CADET SQUADRON • NER-NY-173 - TAK COMPOSITE SQDN • NER-NY-207 - LONG ISLAND SENIOR SQDN 	<ul style="list-style-type: none"> • NER-NY-219 - WESTCHESTER HUDSON SENIOR SQUADRON • NER-NY-238 - COL JOHNNIE PANTANELLI COMPOSITE SQUADRON • NER-NY-247 - BRIAN M. MOONEY CADET SQDN • NER-NY-253 - BATAVIA COMPOSITE SQUADRON • NER-NY-288 - LT. QUENTIN ROOSEVELT CADET SQUADRON • NER-NY-292 - SOUTHERN TIER CADET SQUADRON • NER-NY-301 - PHOENIX COMPOSITE SQDN • NER-NY-311 - 9TH SUFFOLK CADET SQUADRON • NER-NY-328 - SUFFOLK CADET SQDN 10 • NER-NY-332 - THE SPIRIT OF TUSKEGEE CADET SQUADRON • NER-NY-351 - DUNKIRK COMPOSITE SQUADRON • NER-NY-354 - CONDOR COMPOSITE SQDN 	<ul style="list-style-type: none"> • NER-NY-379 - FALCON SENIOR SQDN • NER-NY-387 - SULLIVAN COUNTY CADET SQUADRON • NER-NY-388 - JAMES P. OCONNOR COMPOSITE SQDN • NER-NY-390 - VANGUARD COMPOSITE SQUADRON • NER-NY-392 - VEDDER COMPOSITE SQDN • NER-NY-395 - ULSTER COUNTY FLIGHT • NER-NY-402 - JAMESTOWN COMPOSITE SQDN • NER-NY-406 - FORT DRUM COMPOSITE SQUADRON • NER-NY-408 - F.R. SUSSEY COMPOSITE SQDN • NER-NY-412 - ROCHESTER SENIOR SQDN • NER-NY-415 - CAPT LUKE C. WULLENWABER COMPOSITE SQUADRON • NER-NY-422 - LT ANTHONY L WILLSEA CADET SQUADRON • NER-NY-613 - BROOKLYN SENIOR SQUADRON
--	--	---

RECOGNIZE YOUR CAP COLLEAGUES AND OUR STAKEHOLDER ORGANIZATIONS!

Nominations are due on 15 December. Submit a nomination now!

Do you know a CAP member or an organization that made a significant contribution to aerospace education in the past year or over the course of their CAP career? Now is the time to consider nominating them for a CAP award. **AE awards are a way to recognize the hard work and exceptional**



contributions of those that advance aerospace education. Any CAP member can nominate an organization or individual, but you must follow the prescribed process and forward it through the chain of command. Start planning now as the deadlines are coming up quickly.

DEADLINES FOR AWARD NOMINATIONS

Squadron to Group	15 December 2021
Group to Wing	15 January 2022
Wing to Region	15 February 2022
Region to NHQ	15 March 2022

A great guide for preparing a nomination is CAPP 39-3 "[Awards Made Easy](#)." This is downloadable from our NHQ publications web page. It provides sample nominations for almost all our awards, helpful 'intro' and 'conclusion' paragraphs, plus powerful phrases to describe why the person/organization is being nominated. If we can encourage our

AEOs and commanders and in fact all members to feel more comfortable about writing nominations AND provide them with the tools, then I think we'll be seeing more nominations. **So check out the guide today.**

[CAPP 50-1, Chapter 6](#) describes the awards and the nomination process. ***Below is a list of awards and the applicable form:***

- [Frank G. Brewer CAP Memorial Aerospace Awards](#) - The four award categories, nomination procedures, and the selection criteria for each are covered on the nomination form on **CAP Form 50-1**.
- [Maj Gen Jeanne M. Holm CAP AEO of the Year Award](#) - More information about the qualifications and the nomination procedures can be found on **CAP Form 50-2** or in **CAPP 50-1**.
- [CAP AE Teacher of the Year Award](#) - More information about the qualifications and the nomination procedures can be found on **CAP Form 50-3** or in **CAPP 50-1**.
- [Air Force Association's \(AFA\) AE Cadet of the Year Award](#) - More information about qualifications and nomination procedures can be found on CAP Form **50-4** or in **CAPP 50-1**.

In submitting a nomination you are not only recognizing the contributions of our CAP colleagues and stakeholders, but you are serving your squadrons. Completing a nomination earns a point in the Annual Activity Report and also on the 'Internal AE Tasks' for the Squadron AE Achievement Award. **So start identifying worthy candidates and get to work on the nomination.**

STEM KIT UPDATES

Reprinted from the 12 November issue of Aerospace Education



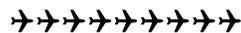
The CAP AE STEM Kit program announces one new STEM Kit and two updates to existing kits. The Robotics STEM Kit becomes the [Robotics Workshop STEM Kit](#) (pictured left). Cadets and students can build and program robots with this complete robotics engineering system. The biggest change is the ability to build different designs (including original designs) over and over again. The Sphero and Mini Sphero

STEM Kit has been updated to [Sphero BOLT and Sphero Code Mat STEM Kit](#) (right). The kit still has a small orb robot (the new Sphero BOLT) for coding and use with the Sphero Edu app, but it now also comes with a large, space-themed activity mat and activity cards. It allows users to paint, swim and/or dance with the help of the app and their imagination.



The new kit, [Let's Go Code!](#) (left), is an exciting kit designed to introduce young children to early coding and programming ideas without electronics. Children ages 4 and older will have fun and build gross motor skills by stepping, hopping and turning while learning the basics of coding. A 9 1/2-by-9 1/2-foot Foam maze mat is included.

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



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/Aerospace Education. *Reprinted from the 12 November 2021 issue of Aerospace Education.*

SITUATIONAL AWARENESS

Distracted walking -- sure, we have all seen the videos on TV where someone is walking and falls into a fountain, or into a door, but keep in mind that this type of behavior is not limited to when we are using a cell phone. The next time you are running an AE activity, and the participants need to get up and move around, remind them, maybe as part of your safety briefing, that they need to maintain awareness of what is going on around them, commonly referred to as situational awareness. Picture this -- you are running a rocketry event, and while walking to the launch pad, a member is looking up, rather than around them. What can you picture happening? They step in a hole they didn't realize was there? They trip over something that was on the ground? They run into someone else who is not situationally aware? Remind people to pay attention -- they can look around after they get to where they were going!

<p style="text-align: center;">THE NEXT QUARTERLY NYW AEO MEETING Mark Your Calendar!</p> <p>The next New York Wing Quarterly AEO Meeting is scheduled for Monday, 24 January 2022 from 1930 to 2030 hours.</p> <p>All AEOs are invited as well as other interested stakeholders. Look for the invitation early in January.</p> <p>Among the topics to be discussed:</p> <ul style="list-style-type: none"> - NYW AE Objectives - FY 2022 Updates - AEX Programs - AE Resources - Maximizing Impact <p>To join the session use the following link:</p> <p style="text-align: center;"><u>24 January 2022 NYW AEO Meeting</u></p>	<p style="text-align: center;">IT'S ABOUT TIME TO CELEBRATE: ARE YOU READY? CAP's 80th Anniversary!</p> <p>In anticipation of CAP's 80th anniversary on Dec. 1, a national-level working group has developed a number of resources to celebrate the day.</p> <p>So no excuses, please. If you have not made plans yet to observe this milestone birthday within your squadron, wing or region, do so now. These resources on GoCivilAirPatrol.com — posted over the past year — will provide you with enough to get started. Plus, we'll soon roll out a national news release that you can share with your local and state media in time for the anniversary.</p> <div style="text-align: right;">  </div> <p style="text-align: center;"><u>80th Anniversary Resources Available</u></p>
---	--

AE DOWNLOADS & RESOURCES

<https://www.caphq.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. **Start planning now for your AEX for FY2022.**

To earn the AEX award you must register then complete six activities (from any of the AE resources or an aerospace education lesson plan of your choice) during the fiscal year and complete at least a two-hour field experience (such as a space day, a virtual aerospace-related field trip, model rocket launch, etc.) to earn color certificates for your cadets and senior members. **Please contact Capt Dicht if you would like to learn more and also how several activities can be conducted virtually.**

CAP TIMELINE FLIGHT

Celebrating Our Aviation Heritage

With the approach of the **Civil Air Patrol's 80th Anniversary** on Dec. 1, **Maj Ronald C. Finger** of the Minnesota Wing's Crow Wing Composite Squadron worked with **Col Frank Blazich** of the Col Louisa S. Morse Center for Civil Air Patrol History, CAP National Historian, on a special project -- to create "**Timeline Flight**" paintings showcasing some of the wide variety of CAP aircraft flown over the years. The 21 aircraft selected span the Coastal Patrol days of World War II, the postwar years and finally the aircraft Civil Air Patrol aircrews fly today. The images are being released every few days. This is a continuation of the postings from the last issue of *Wing Tips*.



The **de Havilland Canada DHC-2 Beaver** is a single-engine, high-wing propeller-driven short takeoff and landing (STOL) aircraft developed and manufactured by de Havilland Canada. It has been primarily operated as a bush plane and used for a wide variety of utility roles, such as cargo and passenger hauling, crop-dusting and civil aviation duties. Several DHC-2s are still in CAP service for search and rescue operations. **N5142G** is flown by the Alaska Wing.



The **North American Aviation T-6 Texan** is a single-engine advanced trainer aircraft used to train pilots during World War II and into the 1970s. Designed by North American Aviation, the T-6 is known by a variety of designations depending on the model and operating air force. The U.S. Army Air Corps (USAAC) and U.S. Army Air Force (USAAF) designated it as the AT-6. **N7295C** has had a long and interesting life spanning the USAAF, USN, CAP and then as a race aircraft in California.



The **Beechcraft T-34 Mentor** is a single-engine, military trainer aircraft derived from the Beechcraft Model 35 Bonanza. When the USAF replaced the last of its T-34As in the early 1960s, numerous Mentors were released to Civil Air Patrol for use as search aircraft. The low wing limited its search and rescue role, however, and expensive maintenance issues resulted in the last T-34As being withdrawn from CAP service by 2003. **N7716B**, with its distinctive "Tiger-Shark" nose, was flown by the Connecticut Wing.



The **Aeronca L-16** was essentially a militarized version of the Aeronca Champion. Beginning in 1955, large numbers were transferred to Civil Air Patrol. The L-16 primarily replaced the similar Piper L-4 (a modified Piper Cub) in U.S. military service and afforded generally better performance, stability, visibility and comfort. N6702C was flown by the Indiana Wing.

Editor's Note: These paintings are very powerful and present the aviation history in a beautiful graphic timeline. To view all of the paintings go to <https://www.cap.news/cap-timeline-flight/>

AVIATION HISTORY SERIES
Lt Col George Geller
New York Wing Asst Internal AEO

1 December 1941
On This Day In Aviation History

With the approval of the Army Air Corps, **Fiorello H. La Guardia** (New York City mayor and director of the federal Office of Civilian Defense and also a World War I aviator) formalized the creation of the **Civil Air Patrol** with **Administrative Order 9**, signed on **1 December 1941** and published 8 December 1941.



This order outlined the Civil Air Patrol's organization and named its first national commander as **Major General John F. Curry. Gill Robb Wilson** (World War I aviator and New Jersey director of aeronautics), was officially made the executive officer of the new organization. Additionally, **Colonel Harry H. Blee** was appointed the new operations director.

At its establishment, CAP made no provision for the participation of youth. On Oct. 1, 1942, CAP leaders issued a memorandum creating the CAP Cadet Program for boys and girls ages 15 to 18. The cadet program proved to be a powerful force for imparting practical skills and preparing teenagers for the military and other wartime service agencies.

CAP's male and female volunteers engaged in an array of wartime missions. These included aircraft warning, southern liaison patrol duty along the Mexican border, courier service, missing aircraft searches, disaster relief, tow target and tracking operations, forest patrols and many others.

CAP's wartime record ensured its postwar future. On July 1, 1946, **President Harry S. Truman** signed **Public Law 79-476**, incorporating the organization. Following the creation of the U.S. Air Force as a separate branch of the armed services, Truman signed **Public Law 80-557**, establishing CAP as the Air Force's civilian auxiliary on May 26, 1948.

Note: If you would like to incorporate CAP history into your AE program, see the following lesson plan: [CAP History Lesson Plan](#)

Source - <https://www.gocivilairpatrol.com/about/history-of-civil-air-patrol>

AVIATION HISTORY SERIES

Source - <https://www.thisdayinaviation.com/>

25 November 1940



Glenn L. Martin Company's engineer and test pilot William Kenneth Ebel, co-pilot Ed Fenimore and flight engineer Al Malewski made the first flight of the first **B-26 Marauder**, Army Air Corps serial number 40-1361.

The B-26 was a twin-engine medium bomber designed with high speed as a primary objective. Production of the new airplane was considered so urgent that there were no prototypes. All aircraft were production models.

The B-26 Marauder was 58 feet, 2.5 inches (17.742 meters) long with a wingspan of 65 feet, 0 inches (19.812 meters) ¹ and overall height of 19 feet, 10.3 inches (6.053 meters). At the root, the wings' chord was 12 feet, 10.5 inches (3.924 meters), with an angle of incidence of 3° 30'. The wing center section had no dihedral, while the outer panels had +1° 17'. The total wing area was 602 square feet (56 square meters). The bomber had an empty weight of 21,375 pounds (9,696 kilograms) and gross weight of 32,025 pounds (14,526 kilograms). 201 B-26s were built before production switched to the B-26A. Glenn L. Martin Co. produced 5,288 Marauders between 1941 and 1945.

3 November 1965



Major Robert A. Rushworth made the first flight of the modified **X-15A-2 rocketplane**, Air Force serial number 56-6671. After a landing accident which caused significant damage to the Number 2 X-15, it was rebuilt by North American Aviation. A 28-inch (0.71 meter) "plug" was installed in the fuselage forward of the wings to create space for a liquid hydrogen fuel tank which would be used for an experimental "scramjet" engine that would be mounted on the the ventral fin. The modified aircraft was also able to carry two external fuel tanks. It was

hoped that additional propellant would allow the X-15A-2 to reach much higher speeds.

The first flight with the new configuration was an "envelope expansion" flight, intended to test the handling characteristics of the X-15A-2, and to jettison the tanks (which were empty on this flight) to evaluate the separation and trajectory as they fell away from the rocketplane in supersonic flight. The X-15 climbed to 70,600 feet (21,519 meters) and reached Mach 2.31 (1,514 miles per hour/2,437 kilometers per hour.) The test flight went well.

IN THE NEWS

THE COCKPIT VIEW WITH MAJ MICHELLE “MACE” CURRAN USAF THUNDERBIRDS - LEAD SOLO #5 Capt Burt Dicht



Image Credit - USAF Thunderbirds

In the course of my life-long passion for aerospace, I've been to approximately 40 airshows. I never get tired of them and there is nothing like the sound and fury of high-performance jet aircraft. This year I was able to go to two shows, one with the Thunderbirds (Cocoa Beach – April 2021) and the other with the Blue Angels (Duluth – June 201).

At the Cocoa Beach Air Show, I was lucky to witness the premiere of the Thunderbirds' new routine, the first revamp of their show in **many years. It is always a thrill to be a spectator as** the Thunderbird team puts their F-16C Fighting Falcons through their paces, demonstrating the skill and agility of the pilots as well as the performance of their aircraft.

I was especially excited this year to see the show because last year I started to follow **Maj Michelle “Mace” Curran** on Facebook and Instagram. Maj Curran flies **Thunderbird #5 and is the lead solo demonstration pilot.** In sharing not only her own story but taking you inside the cockpit as she performs these amazing maneuvers, Maj Curran has become a prominent social influencer.



*Cocoa Beach Air Show 2021
The Calypso Pass (Thunderbird #5 Inverted)
Image Credit – Capt Burt Dicht*

When you watch the aerial performance from the ground, you can only wonder what it is like from the pilot's perspective. Not anymore. Maj Curran's videos, including the appropriate musical soundtracks, puts you into the pilot's seat . . . and



*Image Source – Tom Demerly
(<https://theaviationist.com/>)*

it is wonderous. **Check out her posts and you won't be disappointed.** Maj Curran, who has been with the Thunderbirds for three years, just completed her tour. And she recently announced she will be leaving active duty to pursue other interests, including writing a STEM children's book **We thank Maj Curran for her service and look forward for her to continue to inspire future aviators.**

IN THE NEWS

THREE NYW MEMBERS RECEIVE HIGHEST HONOR

Reprinted from the Mid-Hudson News – 18 Nov 2021



Three Hudson Valley members of the New York Wing of the Civil Air Patrol (CAP) have been awarded the General Carl A. Spaatz Award, the highest honor for CAP cadets. The awards were presented at the New York Wing’s annual conference on 13 November by CAP National Commander, Maj Gen Edward Phelka, a previous Spaatz Award recipient.

CAP Senior Member Sean Flynn of the Orange County Cadet Squadron and **Cadet Cols Grant Becker and Adam DeLitta** of the Westchester Cadet Squadron are the latest recipients. Less than one-half of 1% of cadets achieve the award.

“I credit my success in CAP as well in my private life largely due to CAP’s Cadet program,” said Phelka, who attained the Spaatz award as a Michigan Wing cadet in June 1993.

Flynn, who joined CAP in January 2014, served as the Orange County squadron’s cadet commander and led the squadron’s CyberPatriot team to two straight state championships. He holds private pilot and small Unmanned Aerial System pilot certificates, is an Eagle Scout, and is a member of the U.S. Air Force Reserve. He works in Textron’s Cessna division.

Becker, a CAP member since August 2016, has also served as his squadron’s cadet commander. He graduated from Region Cadet Leadership School and the Hawk Mountain Ranger School and Field Medic course. Becker holds an sUAS pilot certificate and has soloed in powered and glider aircraft. The high school senior is an emergency medical technician and volunteers with his local ambulance squad.

DeLitta joined CAP in 2015. A former squadron cadet commander as well, he is a graduate of Cadet Officer School and National Cyber Academy and participated in the National Blue Beret cadet special activity and the International Air Cadet Exchange.

He earned the President’s Volunteer Service Gold Medal, the highest civilian award for volunteer service, and holds an sUAS pilot certificate, and has earned several emergency services qualifications. DeLitta attends Vaughn College of Aeronautics and Technology in East Elmhurst, New York, studying airport management.

A MESSAGE FROM THE EDITOR

Capt Burt Dicht

New York Wing, Internal AEO



On 9 November 2021, I hosted a virtual AE course in conjunction with the New York Wing Conference. The course title was “**Utilizing Local Resources To Maximize the Impact of Your AE Program.**” Eighty-five senior members and cadets registered, representing seventy squadrons and five regions. I am very pleased to report the course went very well and sixty-five people attended, which is a 76% conversion rate, which in the world of virtual meetings is phenomenal.

What the attendance and questions that were raised demonstrated to me is that there is a tremendous thirst for AE knowledge and resources. And, while we are all from different squadrons and geographic areas, the challenges we face are similar. I wanted to share some of that feedback with you. Below is a list of challenges that attendees expressed when they registered. (*The number in parenthesis indicates how many times the challenge was mentioned.*)

- COVID (7)
- Limited materials and cost (6)
- Finding assistant AEOs (5)
- Cadet attendance & Interest (5)
- Balancing work/home/CAP – not enough time (4)
- Help with AE Specialty track (3)
- Getting more members to take the Yeager exam (3)
- Virtual meetings (3)
- Developing a consistent and balanced AE program - no syllabus (3)
- Getting senior members interested (3)
- Understanding the program (3)
- New to teaching aerospace (2)

The pandemic clearly has impacted our ability to deliver an effective AE program. It’s clear, even though many AEO’s have adapted to virtual activities, there are challenges with materials, attendance, finding new AEOs, balancing time demands, and developing a consistent AE program. I appreciated the candid feedback during the session and while I sensed some frustration, what I heard was a commitment to do our best to fulfill the AE mission and engage our members to the best of our ability.

I mentioned during the session that I intended to produce a report that covered these topics along with the questions and share that with all of you. I’m making that commitment and I have already started. I intend to have this completed by the new year. I also mentioned that we should hold more frequent virtual sessions where the focus is on addressing challenges and questions.

We are now entering the 3rd month of FY2022. An immediate suggestion I have for all of you to address some of these challenges is to create your **2022 AE plan** (if you have not done so). I encourage you to use the [NYW Plan of Action](#) form which you can find on the NYW AE webpage. Every plan requires an assessment of your current resources, both human and financial. It will also depend on what the current situation is in your squadron and if you are meeting virtually, in person or a combination of both. I will share much more about this in my challenge report. In the meantime, please reach out to me with any questions at capaerospace@gmail.com. **Wishing you much success in the coming year and thank you for all you do for the Civil Air Patrol!**

LOGIC AND PUZZLE SECTION

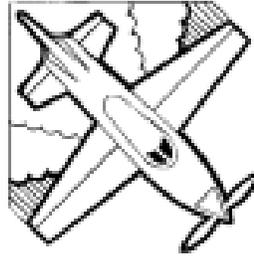
In each *Wing Tips* issue, we are providing you with a Critical Thinking Puzzle. **This puzzle comes from The Mini Book of Logic and Puzzles.** The Civil Air Patrol believes that “Critical Thinking” is a valuable skillset for leaders and cadets, and it devotes a whole chapter to it in the LEARN TO LEAD: VOLUME TWO: TEAM LEADERSHIP, Ch 5: Brain Power for Leadership; Principles of Critical Thinking. (Solution is on Page 17)

WHAT'S My NAME?

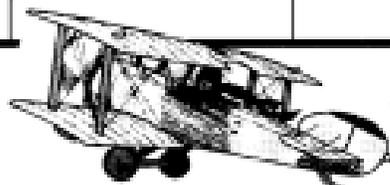
Directions:

This is a famous personalities in aviation exercise. Work with a partner to find aviation names to complete the grid. Remember, the name must fit in the category listed in the far left column and must begin with the letter shown at the top of the column.

EXTRA EFFORT — Give a brief presentation on one aviation personality and their special accomplishments.



	B	C	S
Aviation Pioneers			
Balloonists			
General and Business Aviation Aircraft Models			
Vertical Flight Pioneers			



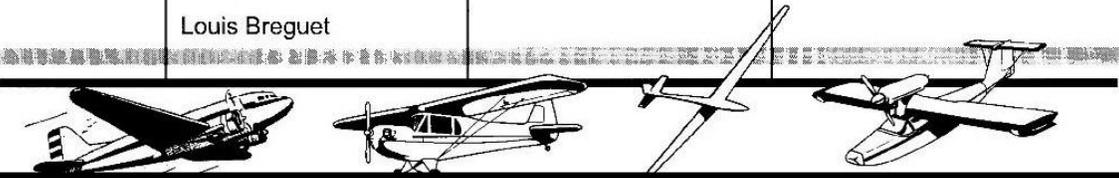
Critical Thinking / Classification

WHAT'S MY NAME PUZZLE SOLUTION

Some answers for each category of the grid for **What's My Name?:**



	B	C	S
Aviation Pioneers	Louis Bleirot	Sir George Cayley Octave Chanute Jacqueline Cochran A. Scott Crossfield Glenn Curtiss	Alberto Santos-Dumont Thomas Selfridge John Stringfellow
Balloonists	Pierre Blanchard	Tiberius Cavallo Henry Cavendish J. A. C. Charles Ron Clark Henry Coxwell	David Simmons
General and Business Aviation Aircraft Models	Beechjet [Beech] Bonanza [Beechcraft]	Cadet [Piper] Centurion [Cessna] Chaparral [Mooney] Cherokee Arrow [Piper] Cherokee Cruiser [Piper] Cheyenne III [Piper] Cheyenne III A [Piper] Citation [Cessna] Cutlass [Cessna]	Sierra [Beechcraft] Skipper [Beechcraft] Skyhawk [Cessna] Skymaster [Cessna] Skysedan [Piper] Skywagon [Cessna] Starship [Beechcraft] Sundowner [Beechcraft] Super Cub [Piper] Super King Air [Beechcraft]
Vertical Flight Pioneers	Emile Berliner Henry Berliner Louis Breguet	Paul Cornu	Igor Sikorsky



WING TIPS EDITORIAL STAFF: (from left to right)

**Lt Col Anita Martin, NYW DAE; Lt Col Marilyn Rey, NYW DAE Emeritus;
Lt Col George Geller, Asst Internal AEO; Capt 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

