



OFFICE OF THE NATIONAL COMMANDER
NATIONAL HEADQUARTERS
CIVIL AIR PATROL
UNITED STATES AIR FORCE AUXILIARY
MAXWELL AIR FORCE BASE, ALABAMA 36112-5937

9 September 2020

Chief Gerald Murray
AFA Chairman of the Board
Bruce "Orville" Wright, Lt Gen, USAF (Ret)
President, Air Force Association
1501 Lee Highway
Arlington VA 22209-1198

Dear Chief Murray and General Wright:

On behalf of CAP's over 35,000 adult members and almost 25,000 cadets, as well as the National Staff, I want to extend our sincere gratitude for the outstanding financial and cadet award support the Air Force Association continues to provide to CAP each year. The funds the AFA contributes for CAP's aerospace/STEM education grants for CAP's units are vital in helping us accomplish our aerospace education mission. Cadet awards presented by the AFA certainly help to motivate our young people, both in the squadrons and on a national level, to aim high in their lives.

CAP received the AFA's CY20 grant funding in the amount of \$7,500 for our summer grants. We have awarded those grants and do understand the fiscal issues facing the AFA that necessitates the suspension of further grant funding at this time. The AFA's continued support for this grant program has been greatly appreciated. For CY19, the AFA's grant funding contribution of \$12,500 was utilized to directly support CAP unit STEM-related programs. These annual grants allow our members to conduct exciting experiences to inspire and motivate thousands of cadets and local youth toward an interest in STEM subjects and careers.

The awards the AFA provide to each CAP squadron's *Outstanding Cadet* and to the *AFA National CAP AE Cadet of the Year* are representative of the AFA's respect for the work CAP is doing to provide quality youth development programs for our country. CAP shares a mutual respect for the AFA's broad initiatives to develop the next generation into technologically-prepared citizenry who will maintain economic viability and national security. The AFA's *CyberPatriot* program specifically demonstrates a commitment to achieve that goal. The *StellarXplorers* program is following that lead. We applaud your efforts and appreciate the opportunity for CAP cadets to participate in these innovative STEM programs.

As noted on the attached *2019 AFA Program Report* prepared by CAP's AFA programs coordinator, Susan Mallett, the benefits of the AFA's support of CAP's aerospace/STEM education and cadet programs are far reaching. The efforts of CAP staff and members to promote and support the AFA's grassroots aerospace/STEM education programs are a sincere reciprocal gesture of admiration and appreciation to the AFA. We feel these joint programs will continue to strengthen our two organizations' partnership nationally, as well as our joint collaborative initiatives in the field.

Again, thank you for your generous support of CAP's missions. It is indeed our pleasure to partner with the AFA and to share in the quest to promote aerospace/STEM education across

America. We pledge to continue to be good stewards of any grants and award opportunities provided to our members.

Very Respectfully



MARK E. SMITH
Major General, CAP
Commander

cc:

AFA

F. Gavin MacAloon, AFA Vice Chairman of the Board, Field Operations

Jim Hannam, AFA Vice Chairman of the Board, Aerospace Education

Rick Hartle, AFA National Secretary

Steven Lundgren, AFA National Treasurer

Sharon Branch, AFA National Co-Vice Chairman of the Aerospace Education Council

Stephen Gurley, AFA National Co-Vice Chairman of the Aerospace Education Council

Bill Croom, AFA National Aerospace Education Council, Finance Committee, Director Emeritus

Maryanne Thompson, AFA National Aerospace Education Council, Director Emeritus

Douglas Raaberg, Executive Vice President

Bernie Skoch, AFA CyberPatriot Commissioner; Chief Information Officer

Kari Hahn, AFA Vice President, Member and Field Relations

CAP

Brig Gen Edward Phelka, CAP National Vice Commander

John Salvador, CAP Chief Operating Officer

Col Arlinda Bailey, CAP National Executive Officer

Lt Col Mike McArdle, CAP National Aerospace Education Adviser

Lt Col Sherwood Williams, CAP National Aerospace Education Manager

Col Mark Wootan, USAF, CAP-USAF Commander

Lt Col David Taylor, USAF, CAP-USAF Vice Commander

Paul Gloyd, CAP Deputy COO

Stacy Jackson, CAP Chief Financial Officer

John Swain, CAP Government Relations Director

Kristina Jones, Chief of Philanthropy

Dr. Jeff Montgomery, CAP Director, Aerospace Education

Civil Air Patrol's CY19 Air Force Association Annual Program Report

Civil Air Patrol continues to recognize the Air Force Association as a treasured organizational aerospace/STEM education partner via the varied partnership programs with the AFA. Much appreciation is extended to the AFA for the 24-year partnership that has resulted in cadet recognition programs and CAP unit and educator member grants.

In December 2017, CAP and the AFA signed a renewed partnership agreement which strengthens support for both organizations' aerospace education initiatives, as well as reciprocal complimentary memberships.

The following sections provide a review of each AFA/CAP partnership program for CY19. **NOTE: This report was delayed to allow additional time for the final CY19 grants, selected in December '19 and distributed in January '20, to be conducted by the units after COVID-19 closed in-person unit meetings. Some projects had to be revised to be completed during this pandemic.**

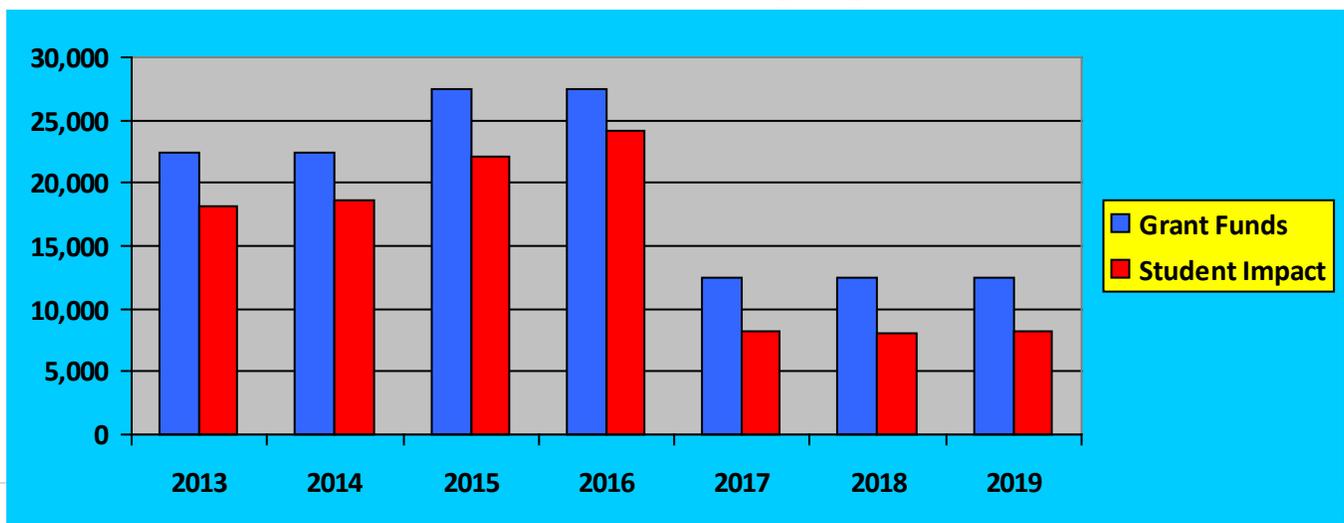
CAP has a dedicated page to AFA and CAP Partnership programs [HERE](#).

AFA Grants for CAP Units and Educator Members

Since the 1996 inception of the AFA/CAP partnership, the AFA has contributed over \$475,000 in grant funding to enable CAP units and educator members the opportunity to complete special aerospace/STEM education projects and programs with young people across the country. During that time, about 383,000 students have been impacted by the AFA grants for CAP units and educator members, averaging about \$1.24 per student. CAP adult and cadet members have used this grant funding to promote STEM-related subjects and career options to young people, serving to aid in the preparation of the future aerospace/STEM workforce.

Historically: The AFA provided \$22,500 annually to the CAP grant program until 2014, when, for 2015 and 2016, the AFA increased the annual contribution to \$27,500 to further grant outreach potential due to CAP's sustained fiscal stewardship. For the years of 2017-2019, the AFA had to reduce the annual funding to \$12,500. As grant funding increased or decreased, student impact numbers followed, as depicted in 7-year review chart below.

AFA Grants for CAP Funding/Impact History



Until 2018, both CAP educator members and CAP units received AFA Grant funds. In 2019, CAP and the AFA agreed to use the decreased grant funding to support only CAP unit aerospace/STEM projects and programs since the AFA already supported educators nationwide with \$500 AFA Educator Grants. This reduced duplicity of AFA funds for educator grants and enabled CAP to better support CAP units.

The funds are used for \$250 CAP unit grants that reach all geographical areas of the country, as well as Puerto Rico. Grant recipients are encouraged to collaborate with other groups to increase program impact.

As approved by the AFA, \$2,500 of the annual grant funding is specifically allotted for grants to perpetuate STEM outreach programs focusing on school-wide initiatives associated with CAP's K-6 *Aerospace Connections in Education (ACE)* program, ACE national award grants, and professional development opportunities.

The application and selection process for the *AFA Grant for CAP Units* ensures that quality STEM-related programs and projects are the foundation of each grant. After-action reports from grant recipients reveal a deep appreciation for and varied benefits resulting from the acquisition of AFA funding. When photos are included, the excitement shows in the faces of the youth benefitting from the grants.

Many of the programs and projects can be replicated numerous times after being funded, thus, there are perpetual outyear benefits of the funding.

2019 return on investment information for the AFA Grant program for CAP units is delineated below, but, as stated, many programs are replicated for several out years and conducted in collaboration with numerous other youth groups, thus immeasurably increasing downstream program impact.

CY19 \$12,500 grant funds expenditures and program impact:

CAP Unit Grants

- Summer Cycle- 20 grants @ \$250 each = \$5,000-----Total youth directly impacted- 2,442
- Winter Cycle- 20 grants @ \$250 each = \$5,000----- Total youth directly impacted- 2,183

STEM Outreach Grants for Aerospace Connections in Education (ACE) Program Awards & Educator STEM Professional Development Programs

- STEM Outreach Grants= \$2,500 -----Total students directly impacted- 3,200
 - ~ Awards for **2019 National ACE School, Educators, and Students of the Year** = \$1,150
 - ~ School-wide ACE program lift-off events & professional development programs = \$1,350

CY19 Total Youth Directly Impacted by AFA Grants for CAP Units Program – 7,825
~Per capita AFA contribution/distribution - \$1.60

A representative photo collage of the 2019 AFA Grant program for CAP units follows on next page.



Cadets learning about and teaching others about avionics and electronics



Cadets taking a field trip for experiential learning about astronomy and astrophysics



Cadets conducting a public event to share aviation programs with the community



Cadets learning about and teaching others about sUASs



Other AFA Initiatives to Support CAP

AFA's Annual Air, Space and Cyber Conference

➤ CAP Wins the 2019 Hoyt S. Vandenberg Award



Maj. Gen. Mark Smith, Civil Air Patrol national commander and CEO, holds the Hoyt S. Vandenberg Award that CAP received from Sec Whitten Peters (left), Air Force Association chairman of the board. Also on hand for the presentation are (from Smith's left) acting Secretary of the Air Force Matthew Donovan, Air Force Chief of Staff Gen. David L. Goldfein and Air Force Chief Master Sgt. Kaleth Wright.

➤ AFA Provides Complimentary Booth Space to CAP



Left: CAP COO, Mr. John Salvador, talks with Gen Nick Kehoe (USAF, Ret) at CAP booth during conference.

Above: CAP National HQ AE team prepare to share CAP's aerospace/STEM products and programs with AFA members.

**AFA's Annual Recognition at Air, Space, and Cyber Conference:
National CAP Aerospace Education Cadet of the Year Award**

- Nominations received at CAP NHQ and selection forwarded to AFA
- [Link on CAP's website](#) and in regulations promoted this award
- Award presented at AFA national awards ceremony in September 2019 to CAP recipient

2019 AFA's National CAP AE Cadet of the Year:

C/Col Annika Walukas

GLR-WI-161, Eau Claire Composite Squadron

Currently in AFROTC at University of Minnesota and

is a member of Arnold Air Society

As of December 2019, became CAP Spaatz Cadet #2266



AFA's Annual Recognition :
CAP Outstanding Squadron Cadets of the Year

- AFA provides an annual award for one outstanding cadet in each CAP cadet or composite squadron.
 - AFA National provided CAP National HQ the award packages for CAP NHQ to mail to each requesting CAP squadron for this special award for outstanding squadron cadets.
 - CAP NHQ mailed out 287 CAP squadron cadet award packages which consisted of an award ribbon and medal.
 - Squadrons were instructed to download the online certificate for presentation.
 - Instructions were provided to connect with an AFA chapter or state representative for the presentation.
- [Link on CAP's website](#), several e-mail communications with members, and social media posts promoted the program.



(Left) Example of award presentations:
To C/2Lt (now Capt) Anya Kratz,
SER-FL-044, SRQ Composite Squadron
by AFA's FL West Coast Chapter 429,
Col Michael Richardson, (USAF, Ret)
April 2019

AFA's Annual CyberPatriot and StellarXplorers Programs

- As with each year since the inception of the AFA's CyberPatriot National Youth Cyber Education program, CAP units were given the opportunity to compete in the CyberPatriot program at no cost to units due to the AFA/CAP partnership . CAP team fees are waived as CAP pays all CAP national team competition expenses
- CAP team participation continued to be the top organizational group in the *All Service Division* of the 2019 competition with 540 teams. CAP also had 47 Middle School teams compete.
- CAP receives two slots in the national finals competition each year. The top two CAP teams compete in hopes of winning the National Competition.



CAP All Service teams participating in the CyberPatriot National Finals, CO Wing's CO Springs Cadet Squadron team Big Sioux (L) and CA Wing's Fullerton Composite Squadron's Team Valour (R)

- Fifteen CAP teams participated in the AFA's StellarXplorers program with the MN Wing's Annoka Composite Squadron team (pictured below) earning a slot as of 10 teams competing in the national finals.



- Article in [CAP NEWS online](#) provided accolades for the CAP teams involved in the 2019 National CyberPatriot and StellarXplorers competitions.

CAP promoted all AFA-sponsored programs listed above via social media posts; Benchmark media e-mails to members; Cadet Blog; and CAP News, online news outlet.

What does the AFA do for CAP?

Thank you to the AFA!



**AEROSPACE/STEM
EDUCATION
PARTNERS FOR THE
FUTURE**



CAP's Reciprocal Support of the AFA

What does CAP do for the AFA?

Complimentary CAP AE Memberships
for AFA Chapter Support to Local Educators

Free STEM Programs for AFA Chapters

In CY19, CAP provided 161 complimentary AE memberships for AFA Chapter Teachers of the Year and local teachers working with the AFA chapter or attending AFA teacher workshops.

Each complimentary CAP AE membership an AFA chapter gave to a local educator garnered the educator eligibility to receive a wealth of FREE STEM resources to ignite an interest in STEM subjects and careers with the teachers and the students:

- [Over 40 free K-12 aerospace-themed STEM books and modules](#)
- [15 free K-12 STEM Kits](#) for educators to use and keep
- Free [K-6 Aerospace Connections in Education \(ACE\) program](#)- with free curricula and grade level student educational materials
- Free K-12 [Teacher Orientation Program \(TOP\) flights](#) at local airports



Cost to AFA Chapters? Nothing!

Cost to Educators? Nothing!

Since this program began in 2011, 2,091 AFA-supported educators have had the regular \$35 membership fee waived and received the complimentary memberships equating to **(\$73,185)** to CAP.

*** In CY19, the 161 educators receiving the complimentary AE membership equated to **(\$5,635)** to CAP.

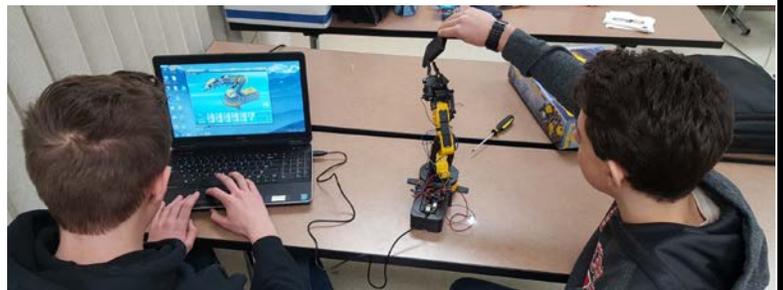
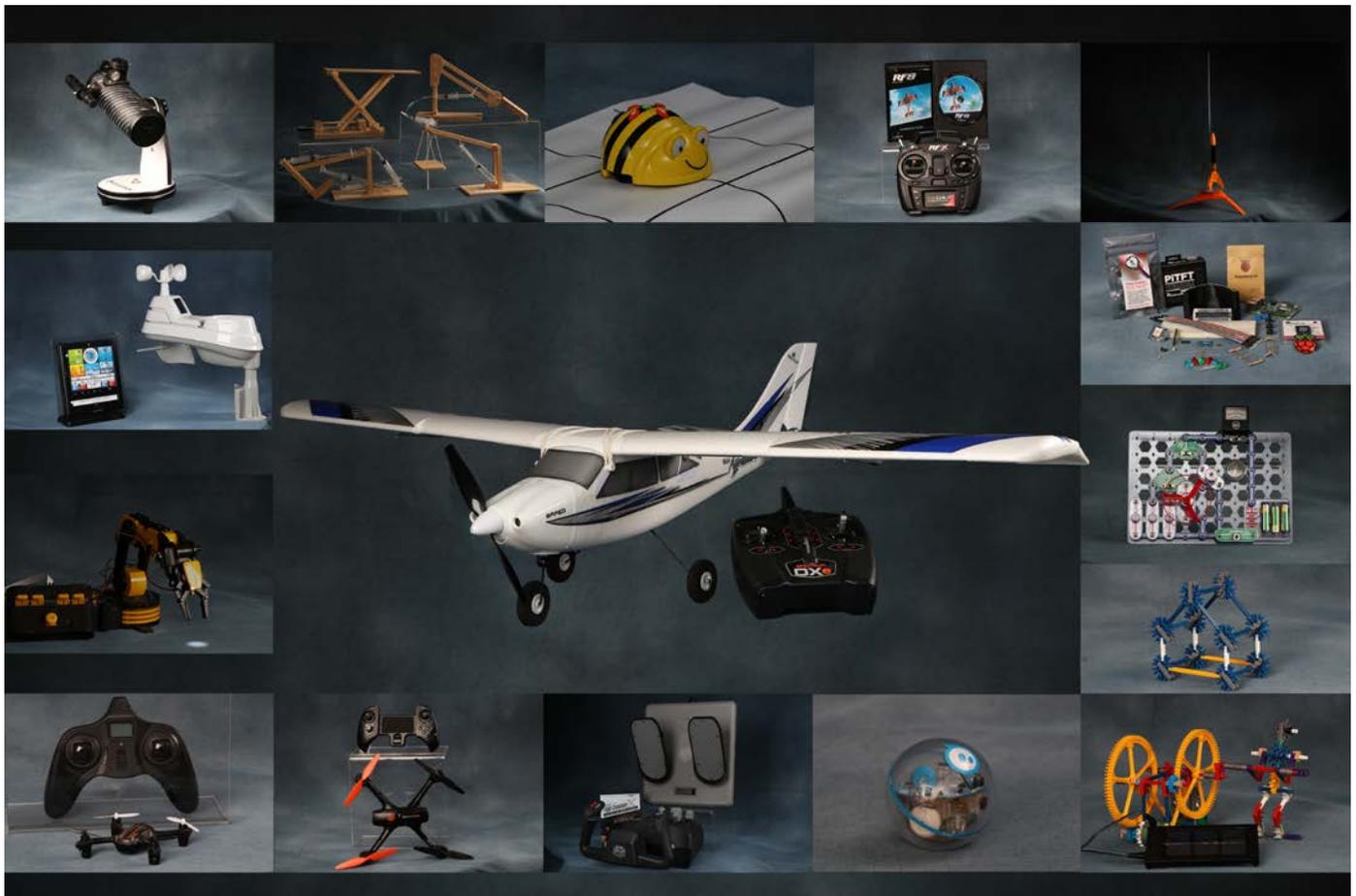
- ***Annual worth to EACH AFA-sponsored CAP educator member? An average of \$400 goods and services!***
- **In 2019 alone, CAP provided about \$64,400 worth of FREE STEM materials to new AFA chapter-sponsored educators.**
- **Combined CY19 benefit to the AFA via the complimentary AE memberships: \$70,935.**
- NOTE: AFA-sponsored educators who have been members for several years and have received free annual renewals are still receiving annual benefits, so the cumulative amount provided by CAP in CY19 is far more.



~ For CY2019, at least 161,000 youth benefitted from the free STEM products and programs CAP provides to AFA-sponsored educators.

**AFA-chapter sponsorships are quite appreciated by the educators!
They especially enjoy the free STEM Kits.**

*Photos of the free CAP STEM Kits available to any educator who becomes a
CAP AE member sponsored by an AFA chapter...*



AFA-sponsored educators gain a good bit of aviation knowledge during the free CAP Teacher Orientation Program (TOP) flights in CAP planes with CAP pilots flying over their schools from their local airports!



2019 AFA & CAP Join Event Videos

- [AFA & CAP Flight Day Video](#)
- [AFA & CAP Aerospace Day at Maxwell AFB, AL Video](#)

CAP's Reciprocal Support of the AFA, continued:

- National AFA's [AE Educator Grant Program](#) was promoted to CAP educator members via e-mails and social media; and annual AFA Educator Grant selection assistance was provided by CAP.
- Coordinated CAP cadet units participating in *CyberPatriot* and *StellarXplorers* national finals programs and promoted the programs to units and schools nationwide.
- Actively promoted AFA membership to CAP members.
- Provided CAP's no-cost aerospace/STEM products and programs for chapter use.
 - CAP supported AFA educator workshops with free STEM resources and TOP flights for AFA chapters.
- The AFA logo and partnership is widely disseminated on CAP brochures, certificates, shirts, and curriculum products, printed as:

“Partners in Aerospace and STEM Education” (as seen in the following examples)

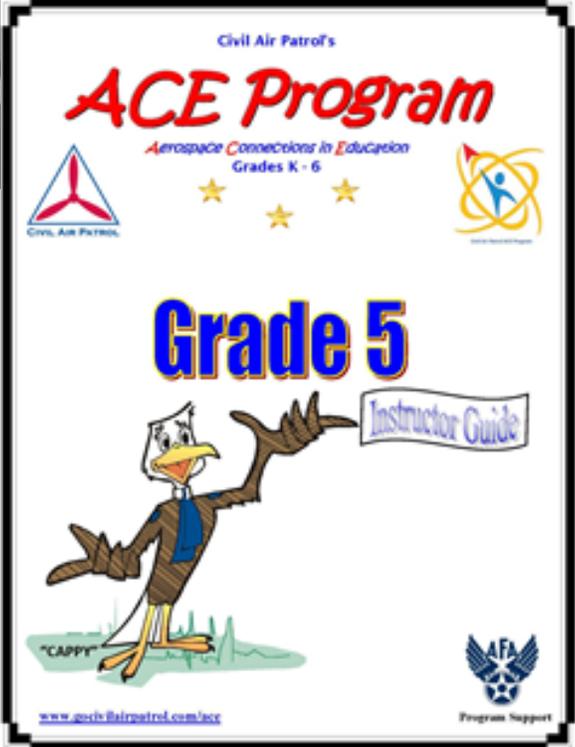
AFA Logo Printed on Back of CAP Curriculum Materials



**AFA Logo Printed on
CAP K-6 Aerospace Connections in Education (ACE)
program curriculum guides, shirts, and certificates**



**AFA logo on ACE program:
shirts (above)
curriculum guides → →
certificates (below)
(For 2019, over 76,000 students
across the nation were ACE
participants!)**



CAP's Appreciation to AFA National Headquarters Staff:

- Kari Hahn and team members, Joe Peel, Christina Brown, and Alex Edgar, have continued to provide prompt and professional service in the AFA/CAP grant and award program partnership.
- Bernie Skoch and the CyberPatriot team has provided excellent support for CAP cadet teams, as has the StellarXplorers team members.
- The AFA has included AFA/CAP partnership initiative information in the AFA National Report in the AFA magazine, as well as the AFA Newslines and AEC Newsletter.

Respectfully submitted with sincere appreciation,

Susan Mallett

Educational Outreach and AFA Programs Coordinator

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