



Aerospace Education

Fall 2012

News

Inspiring Students To Excel

October is National Cyber Security Awareness Month -
<http://www.dhs.gov/national-cyber-security-awareness-month>

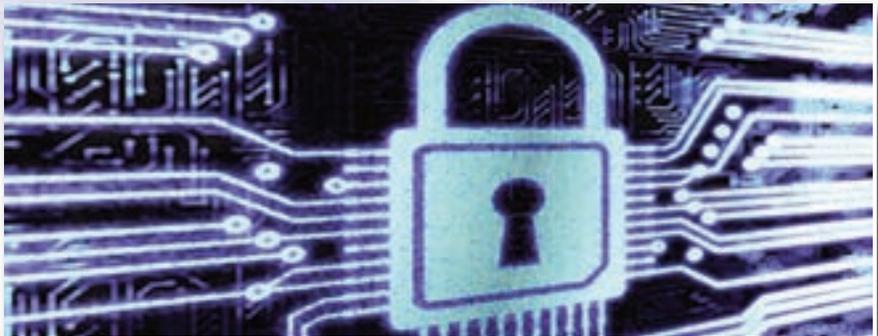


CYBER SECURITY - A GROWING CAREER

In 2011, only 4% of teachers surveyed taught about Cyber Security careers in their classrooms. Becoming aware of these career fields early in their high school careers, helps students take classes as well as engage in apprenticeships and volunteer work that relates to a possible future career.

corporations, information technology, e-retailers, and other small businesses connected via the Internet.

The need for skilled workers in this ever-growing career field can only be met by addressing this possibility and exploring these careers in the high schools of America. To find out what



IN THIS ISSUE

AEM Spotlight.....	2
AEO Spotlight	3
ACE Update.....	4
AE Notes.....	5
Curriculum Corner ...	6-9
AFA News.....	10
From Dep Dir Desk.....	11
Region to Region.....	12

Aerospace Education News
Aerospace Education News is the official aerospace education quarterly publication of the Civil Air Patrol at CAP National Headquarters, Maxwell Air Force Base, Alabama.

Editor
Judy Stone

Contributing Writers

Jeff Montgomery
Susan Mallett
Angie St. John
Debbie Dahl

Printing Service
Jacques Pebworth

If you have news, events, or ideas we might consider for the newsletter, please submit them electronically to jjstone@capnhq.gov.

Categories that can be addressed in schools include Cyber Ethics (including elements such as plagiarism, piracy, privacy, hate speech, and other aspects of Internet usage that have a somewhat moral component); Cyber Safety (including social networking, sharing of personal information, predators, and location based applications); and Cyber Security (including concerns related to malware, viruses, password protection, identity theft, and even National Security).

The future of our nation and the jobs that will be abundantly available for the next generation of students are in the Cyber-connected career field. These jobs are important for defense and governmental entities as well as meeting the needs of businesses such as banks, health care providers, major

initiatives were implemented in each state in 2011, go to http://www.nascio.org/publications/documents/CyberSecurityAwarenessResourceGuide_9282011.pdf.

To find out about the CyberPatriot competition and online monthly CyberSentinel newsletter sponsored by the Air Force Association, visit www.uscyberpatriot.org.

Questions:

(Answers on page 12.)

1. What percent of teachers surveyed taught about Cyber Security in 2011?
2. What does Cyber Ethics, Cyber Safety, and Cyber Security cover as topics that can be addressed in schools?



Aerospace Education Member (AEM) Spotlight ... National CAP Aerospace Education Teacher of the Year *Cynthia Byers - WI*



The National CAP Aerospace Teacher of the Year, Cindy Byers, has been affiliated with CAP as an Aerospace Education Member (AEM) for five years as well as other organizations that support education in aviation and space for youth. Cindy is on the Board of Directors for Space Education Initiatives, is an educator member of the American Institute for Aeronautics and Astronautics, and uses her enthusiasm and ingenuity to create programs and receive grants to help accomplish the goal of motivating students into STEM careers. Cindy is currently a teacher with the Rosholt School District, WI, where she teaches a variety of science, particularly aerospace courses. She works with a variety of age groups such as middle school students and gifted and talented students in elementary and middle school.

Not only does Cindy Byers put forth opportunities for school-aged learners, but she also provides learning experiences for adult learners. Cindy has passed on her enthusiasm for aerospace and CAP to workshops for adults at the annual CAP AE Training for the Wisconsin Wing and the Teacher Orientation Flight program for teachers. She has presented at NASA's Space Exploration Educators Conference (SEEC) in Houston, Texas, and locally for the Lion's Club. Cindy

believes in what she teaches so it is inspirational to be in her class or workshop. According to Alex Beckland (Cindy's former student who is also a CAP cadet), "I learned a lot about the basics of physics as well as aeronautics and astronautics, along with other general middle school science subjects, from her. Even though I'm not her student anymore, I still look up to her as a mentor and role model."

Cindy Byers has kept her skills and enthusiasm for aerospace sharp by keeping up-to-date on her own professional development. She uses the information she learns in her classroom and shares her experiences with her students. Cindy has attended workshops at five NASA centers and incorporates her own photos and information shared by space professionals in her classes. Cindy looks for opportunities that will enhance her teaching of her favorite subject – aerospace.

CAP is proud and honored that Cindy Byers is this year's Aerospace Teacher of the Year. She is the best ambassador and example that we could hope for in the role of CAP AE Teacher of the Year. Thanks, Cindy!



Top: Cindy Byers accepts CAP Teacher of the Year Award from CAP's National Commander, Maj. Gen. Charles L. Carr, at National Conference
Bottom: Cindy Byers instructs students in aerospace during model rocket launch

***"I believe that students must have a personal connection with concepts in science. This involves physical and mental activities, working collaboratively, and being actively engaged in science as a process. The CAP materials help this happen."
--- Cynthia Byers, CAP National Teacher of the Year 2012***



Aerospace Education Officer (AEO) Spotlight.....

CAP Aerospace Education Officer of the Year - Capt William M. Blatchley RMR-CO-030



Capt William Blatchley believes in CAP's Aerospace Education mission and that young people need more science in their lives. He proves this by working with students and cadets to help them understand science and technology. One way Capt Blatchley does this is by mentoring young cadets in the CyberPatriot competition. He has volunteered countless hours to instruct and coach the squadron team for three straight years. He also presented a CyberPatriot program at the Colorado Wing Conference to try to involve other senior members in this rewarding activity.

The learning does not just occur in the squadron. Capt Blatchley also has his squadron participate in community outreach such as the University of Colorado at Colorado Springs' Cool Science Festival. The mission of the festival organizers is to show the fun of science, involve all ages, engage in informal learning experiences, grow minds, and enhance the Pikes Peak community. Capt Blatchley's cadets from the Colorado Springs Cadet Squadron hosted a booth allowing children to make and launch paper rockets. The cadets worked with almost 500 students and taught them about aerodynamics and rocket design.

Being a professional, Capt Blatchley is constantly learning more about Aerospace Education. He attended the 2011 Rocky Mountain Region Aerospace Education School

as well as the Cyber 101 Conference at the Space Symposium. This commitment to excellence appears in every aspect of his AE program.

Capt Blatchley appeals to the "pilot" in his cadets by offering a private pilot ground school course. His course continues to grow and in 2011 he instructed 18 cadets from two different squadrons. His goal was to have the cadets pass the FAA ground school course on their way to becoming pilots. As his commander, Lt Col Jeffrey Mueller, puts it, "Capt Blatchley's dedication to the aerospace mission is unmatched. He volunteers countless hours and money, utilizing his own resources at his business. He truly wants the cadets to learn and become better citizens." This dedication was recognized at the CAP National Board this year as Capt Blatchley received the National Aerospace Education Officer of the Year award. This is the kind of service that CAP is about and we wish Capt Blatchley the best as he continues to provide guidance and knowledge to the youth in CAP and his community.



Top: Capt Blatchley instructs cadets

Bottom: Capt Blatchley and cadets hear information from General Dynamics representative at the Air Force Association Cyber Symposium

"My goal as an AEO and CyberPatriot coach is to give cadets opportunities to learn new skills and acquire knowledge they may not receive in school. Exposing cadets to this type of experience may help them choose a career path in STEM."

--Capt William M. Blatchley, CAP

K-6 Aerospace Connections in Education (ACE) Program 2012-2013 Roll Call

If you are a K-6 educator, are you on CAP's 2012-2013 ACE program participation list? Find out what schools are currently represented in CAP's 2012-2013 ACE program at http://www.capmembers.com/aerospace_education/aem_specific/ace-roll-call/. If you want to participate, there is still time. Go to www.capmembers.com/ace for program and registration details.

CAP's ACE program is already impacting hundreds of teachers and thousands of students across the country again this year. This aerospace-themed program provides K-6 educators with engaging cross-curricular lessons that support science, technology, engineering, and math (STEM) education. In addition to helping teachers teach regular academic subjects in extraordinary ways, numerous ACE program lessons also encourage good moral character and teach physical fitness habits for living a healthy and drug-free lifestyle. Program materials include a national academic standards-based curriculum guide of 21 grade-specific lessons, a classroom set of an aerospace item (such as balsa planes, finger rockets, etc.), ACE t-shirts for the students and teacher, ACE student certificates for program completion, and the teacher is provided an ACE teacher plaque after successfully completing the program. All program materials are provided FREE to teachers who are members of CAP, and CAP is appreciative of additional program sponsors such as the Air Force Association (AFA); FLIR Systems, Inc.; and Lightspeed Aviation Foundation

who make it possible for CAP's ACE program to impact more students. If you have any questions about this program, send an email to ace@capnhq.gov.

If you are already an ACE teacher, stay up-to-date with the latest ACE announcements, stories, and resources at www.capmembers.com/aceteachers. If you would like to place an ACE link on your school's website (if your school is an ACE school) or on your teacher's page (if you are the only participant or only one of a few participants at your school), please link to the ACE Roll Call page (listed at the beginning of this article). Additionally, please continue to email your ACE stories and pictures to ace@capnhq.gov. We will be looking to cover some ACE liftoff events in our next edition of the AE newsletter, so please share those with us.

In closing, CAP's National Headquarters (CAP NHQ) in Alabama is both losing and adding a member to its national aerospace education (AE) staff that work directly with CAP's ACE program. Angie St. John, who has been with the ACE program since its formation in 2007, moved to Tennessee over the summer and is resigning her position at the end of November. She is currently training the newest CAP NHQ AE manager, Mare Gilmore, to oversee the program. Both Mare and Angie are former employees

of the U.S. Space & Rocket Center (USSRC) in Huntsville, Alabama, home of Space Camp. Mare, a native of Ohio, is the former director of education for the USSRC and brings much aerospace education knowledge, experience, and enthusiasm that will be a great asset to the staff and the ACE program. CAP experiences both the sadness of losing Angie St. John, an outstanding employee who did a masterful job helping to build and manage CAP's ACE program, and the joy of receiving Mare Gilmore, an outstanding educator who will continue to take CAP's ACE program to new heights. Best wishes to both of these remarkable ladies, and best wishes to all of our teachers for a "high flying," successful school year!



Mare Gilmore (on left) and Angie St. John (on right) prepare materials for the upcoming ACE Program year



More Teachers Take to the Skies in 2012 TOP Flights

The 2012 TOP Flights were successful in giving teachers a first-hand experience in the science of flight again this year. Many CAP wings participated in making this opportunity a reality for CAP Aerospace Education Members (AEMs). Wings conducting TOP Flights (many during AE workshops) were: AK, AL, AR, AZ, CA, GA, FL, IA, IN, MS, NC, NM, NV, NY, OK, PA, UT, VA, and WY. These wings not only flew teachers but many made TOP Flights a priority because they know the value of educating teachers so they can inspire youth toward exciting STEM careers.



Top: Roland Dewing (Director of Aerospace Education from New Mexico Wing) introduces the TOP Flight workshop to participants
 Middle: AEMs ready to go on their TOP Flight in NM
 Bottom: AEMs in NM learn about the forces of flight while building and flying paper airplanes

Top Left: AEMs in Arkansas participate in TOP Flights
 Middle Left: AEM from Mississippi takes TOP Flight
 Bottom Left: WY Wing Commander, Col John Mitchell, explains preflight to AEMs during TOP Flight

Are you a new CAP AEM or an AEM or CAP member who is a teacher but has never taken a TOP Flight? Contact Judy Stone at jstone@capnhq.gov and she will put you in touch with the point of contact for your state. Are you an Aerospace Education Officer or other interested CAP Senior Member who is interested in this program? Contact your wing AE leader to find out how you can participate. A list of Wing and Region AE leaders can be found on the AE website at www.capmembers.com/ae (scroll to the bottom of the page to get the list).



CURRICULUM CORNER.....GRADES K-4

CYBERSAFETY: FAUX PAW, THE TECHNO CAT

Credit: <http://www.ikeepsafe.org/educators/fauxpaw/>

Objective:

Students will learn safety tips when using the Internet.

National Educational Technology Standards:

- 5. Digital Citizenship
 - a. Advocate and practice safe, legal, and responsible use of information and technology

Grade Level(s): K-4

Background Information:

The issue of Internet safety or Cyber safety has become a complex problem for our society just as stranger danger on the streets. Children need to be introduced to the concept of Internet safety in a way that is non-threatening but will open a dialogue with parents. Learning to use proper judgment when communicating with others on the Internet is a basic skill that teachers and parents should reinforce with their children. The Faux Paw series not only gives this avenue for discussion, but it also gives many ways to present the lessons - from video to audio to book format along with lesson plans.



Materials:

- Computer with Internet access
- *Faux Paw's Adventures in the Internet* safety review activity sheet and pencil

Procedure:

1. Explain to students that you are going to share some important information with them and you will have a friend to help. The friend's name is Faux Paw and he is a cat.
2. Show the movie, listen to the audio, or read the book about Faux Paw's adventures in the Internet. The web site for these resources can be found at <http://www.ikeepsafe.org/educators/fauxpaw/>.
3. Ask students to tell you about the book and ask what they thought about it.
4. Ask students what mistakes Faux Paw made while on his computer. (*Answer: She gave out her name; she almost gave out the name of her school, but Cursor stopped her; and she agreed to meet a stranger that she had found on the Internet.*)
5. Ask students how Faux Paw knew that she would be safe and could trust the Governor when she went to him for help? (*Answer: She had known her in real life for a long time and had seen her face to face. She had been her friend in person.*)
6. Ask students what are the three things we need to remember about being safe on the Internet? (*Answer: Keep your information safe and never give anyone your real name, address, phone number, name of your school, or a picture of yourself; keep away from Internet strangers no matter what they tell you; and keep telling your parents about everything you see on the Internet.*)
7. Have students do the review activity sheet as a group with the teacher or in small groups.

Summary:

Students should learn to keep safe, keep away, and keep telling as the three KEEPs of Internet safety.

Evaluation:

Students should be able to answer the Internet Safety Review Activity Sheet correctly.

Extension:

1. Use the popular fable the *Wolf in Sheep's Clothing* to reinforce the lesson.
2. Have students make a poster of the 3 KEEPs from the lesson.

Resources:

1. Access the pamphlet by the New York State Police and the National Crime Prevention Council titled "Cyber-Safety, A Guide for Safety On-line" - http://www.troopers.ny.gov/Publications/Crime_Prevention/cybersafety.pdf



2. Learn safety on the Internet while playing this Disney game - <http://home.disney.com.au/activities/surfswellisland/>

Answers to Faux Paw's Internet Safety Review Activity Sheet (page 7):

1. Name, Address, Phone Number, The name of your school, A picture of yourself
2. c. Run and tell an adult.
3. d. It's never okay.
4. SAFE; AWAY; TELLING



Name: _____



I Keep Safe When I Use the Internet!

Faux Paw's Adventures in the Internet

Internet Safety Review Activity Sheet

Take this home and share with your parents!

1. What kinds of personal information should you KEEP protected, and never share with anyone on the computer?

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____



2. If you see anything on the computer that makes you feel uncomfortable, you should: (circle one)

- a. Ignore it.
- b. Turn off your computer and tell a friend.
- c. Run and tell an adult.
- d. Click the HELP button.

3. It's okay to meet in person someone that you've met on the Internet, IF:

- a. You meet in a safe, public place.
- b. They promised to bring you a present.
- c. It's someone from your mom or dad's office.
- d. It's never okay.

4. Write the 3 KEEPs™ of Internet safety:

Keep _____ • Keep _____ • Keep _____



© 2006 Internet Keep Safe Coalition. "Faux Paw", "Faux Paw the Techno Cat", "the Techno Cat", "iKeepSafe", "Internet Keep Safe Coalition", the stylized no-toed paw print, and the slogan, "Keep Safe - Keep Away - Keep Talking" are legally protected service marks and trademarks of the Internet Keep Safe Coalition.

This document may be copied, courtesy of iKeepSafe™ for incidental and classroom use, provided that this notice appear on each copy.



CURRICULUM CORNER.....GRADES 5-12

CYBERSECURITY: STRONG PASSWORDS

Credit: www.StaySafeOnline.org

Objective:

Students will use a simple checklist of what makes a strong password while engaging in creative and critical thinking to explore the concepts behind each tip on the checklist.

National Educational Technology Standards:

5. Digital Citizenship

a. Advocate and practice safe, legal, and responsible use of information and technology

Grade Level: 5-12

Background Information:

It's important to have a strong password to protect you online. Each poster of three used in this activity (found at www.StaySafeOnline.org) reminds students of one way to check if their passwords are strong. The stronger the password is, the more difficult it is for someone to pretend to be you.

Materials:

- Paper and pencil

Procedure:

1. Have a discussion with your students about passwords by asking the following:
 - What is a password? (*Passwords are the key to our personal digital information and identity. Passwords are like secret codes that you make up, or are like house keys that protect our house.*)
 - What would happen if you shared your password with a friend? (*Answers may include: "She can get to my screen name and my buddies would think I'm texting them when she really is", or "He could sign on as me to my favorite game."*)
2. Start with an explanation of primary Internet password safety. **We never share our password with anyone**

except our parents or guardian. We also want our password to be strong, so no one can guess it.

3. Show students the poster titled "My Password Is Long Enough." Tell students that longer passwords are harder to guess than shorter ones. Experts who have studied passwords have determined that a password should be at least eight characters long. That's long enough that it is not easy to guess but short enough that you can memorize it.

3. Show the poster titled "My Password Mixes Letters, Numbers, and Symbols." Write abc123## on the board and then underneath write A1b#3\$2c. Ask students which password is stronger and why. (*Answer: The top password uses only lower case letters, while the bottom one uses both upper and lower case; the top password uses the letters in sequence, the bottom password mixes the letters up; the top password uses numbers in sequence, the bottom one mixes the numbers up; and the top password repeats the same symbol twice, the bottom password uses two different symbols.*) The more guesses it takes to figure out a password, the stronger the password is. A more mixed up password is harder for someone to guess. Experts have determined that a password with a mix of upper and lower case letters, numbers, and symbols is harder to guess.

4. Display the poster titled "My Password Uses My Own Secret Message!" Ask students how they could make a secret code that would be easy for them to remember but hard enough that no one else could guess it? What if you first took the name of a favorite book, or a favorite movie, or part of a funny joke that you could easily remember and then wrote it in a secret code? Show students how the phrase "Nancy and Jeff are three" can become the password

nanC&JEFFr3. Lead students to explore how they can take a phrase to remember and then substitute letters with symbols and numbers. Have students create their own private codes. Instruct them to draw a table with two rows and eight columns. In the eight boxes on the top have the students write a letter. In the eight boxes below, have them come up with a corresponding symbol or number that replaces commonly used letters. Use the example below to explain:

A	E	I	T	B	S	G	L
@	3	1	+	&	5	9	!

Allow students time to practice developing their own personal phrases and then applying their letter substitutions. Suggest that they destroy these notes so that they can use the passwords in the future. Experts say the trick is to use a code that is not difficult to remember because once you write it down, anyone can find it and copy it. A strong password must meet all three poster criteria to be a strong password.

Summary:

Students learn what it takes to create and protect a password.

Evaluation:

Give students the worksheet for Strong Passwords to complete and discuss.

Extension:

1. Have students create passwords for others in the class to try and decipher. What kind of code did they use? (Use the rules for the game Animal, Vegetable, or Mineral - http://www.csuchico.edu/~gthurgood/470/025_Animal,%20vegetable.pdf to have each student try to guess another student's password.)



Curriculum Corner (Grades 5-12) continued...

Strong Passwords Worksheet

Name: _____ Date: _____

Answer the following questions from the class discussion on Strong Passwords:

1. What are the criteria for a strong password?

2. Create a strong password and a weak password and explain why the strong password is strong and why the weak password is weak.

Strong password _____

Why it is strong _____

Weak password _____

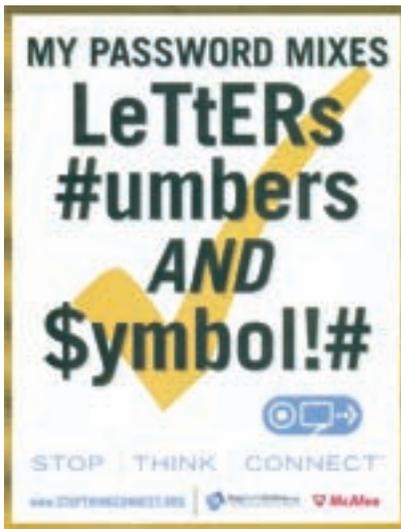
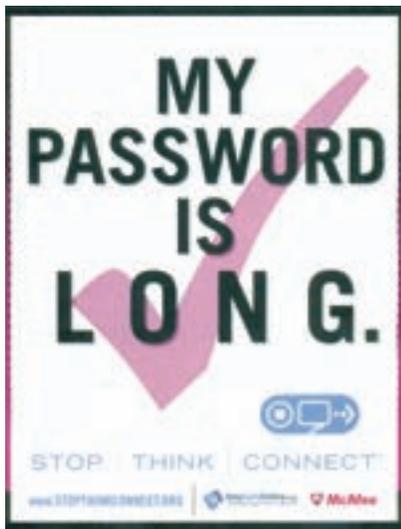
Why it is weak _____

3. Make up three passwords that seem strong and check their strength on Microsoft's Password Checker at <https://www.microsoft.com/en-gb/security/pc-security/password-checker.aspx>.

First password _____ How did it rate? _____

Second password _____ How did it rate? _____

Third password _____ How did it rate? _____





Air Force Association Partnership

CAP wishes to share sincere gratitude to the Air Force Association for the many years of financial support enabling the perpetuation of the AE Mission via CAP's youth development programs for CAP units and teacher members. The educators and projects selected in a competitive grant process to receive the fall quarter \$250 grants are:

- **Bonnie Bourgeois**, North Layton Jr High School, Layton, UT, Hot Air Balloon and Atmospheric Lift-off
- **Ginger Boyd**, Slocomb Elementary School, Slocomb, AL, Connecting Reading and STEM Through Aerospace
- **Tom Butler**, Cross Keys High School, Atlanta, GA, Training Program Prior to Building Actual Flyable RV-12 Aircraft
- **Justin Devine**, Nolan Middle School, Bradenton, FL, Rocketry Program Using Math, Meteorology, Physics, and Engineering
- **Armando Hernandez**, Lee High School, Huntsville, AL, Communication Technology Project Using Kinematics, Electromagnetic Waves, and Wave Dynamics
- **Kyle Holbrook**, W.D. Sugg Middle School, Bradenton, FL, NASA Rocket Simulation and Laser Design Project
- **Gloria Kindig**, Picacho Middle School, Las Cruces, NM, Team America Rocketry Challenge Program
- **Sally King**, Meigs Middle School, Shalimar, FL, School-wide Science Lab Project
- **Rachel Kleser**, Pinellas Primary Academy, Largo, FL, Aerospace Integration Program
- **Virginia Knudsen**, Parkway Middle School, Fort Lauderdale, FL, 6-7th Grade Kennedy Space Center Field Trip
- **Patrick Lee**, Durfee High School, Fall River, MA, New Aerospace Technology Program
- **Matthew Maisano**, Conestoga Valley High School, Lancaster, PA, Aviation Technology Program and Airport Tour
- **Patricia Osborne**, Holmes Middle School, Eden, NC, Pioneers of Flight, Rocketry Then and Now

• **Melanie Peters**, Holley-Navarre Intermediate School, Navarre, FL, Patriotism and Honor of Military Through Aerospace Character Program

• **Pamela Ramage**, White Station Middle School, Memphis, TN, Aviation Career Library Project

• **Jory Robert Vanderburg**, 388 Fighter Wing Historian Office, Hill AFB, UT, Traveling School Program: Honoring the Berlin Airlift and "Uncle Wiggly Wings"

Congratulations, recipients! Much appreciation to the Air Force Association for funding these grants for CAP teacher members to conduct exciting STEM projects to promote career awareness and preparation!

Appreciative AFA Grant Recipients Collaborate to Conduct STEM Programs:

Educator Grant Recipient - Teacher Marlene Moore, working with the Canyon Owyhee School Services Agency in ID, used her AFAAE Grant to conduct an Aerospace Day wherein Nampa CAP adults and cadets and Marsing Middle School after-school students collaborated to help 2nd-6th grade students build and launch airplanes and rockets for parents and school members. Leadership, teamwork, and STEM skills were used to provide relevance to learning for the students.



Unit Grant Recipient - Under the leadership of Lt Jeffrey Serpas, the Timmerman Composite Squadron in Milwaukee, WI, worked with the Academy of Model Aeronautics (AMA) Porterville Flyers in Mukwonago to host

a remote control (RC) fly day for the CAP cadets to build and fly RC planes. Using the AFA AE Grant, Lt Serpas extended the event into a 3-phase project to turn one RC plane into an unmanned aerial system (UAS) with programmed geospatial waypoint missions.



AFA's CyberPatriot V Update:

About 1,200 high school teams across the nation are participating in the AFA's CyberPatriot program. Open to all high school students (Open Division) and all services JROTC, CAP, and Sea cadets (All Division), this exciting national high school cyber security competition introduces students to cyber security, forensics and hardware career fields. Both division teams will begin in October to compete in several rounds to determine national champions in parallel competitions March 14-15, 2013 in National Harbor, MD. To find out if a team in YOUR area is competing, and to track competition progress, go to www.uscyberpatriot.org.

In closing, CAP extends deep appreciation to the AFA for continued dedicated support to the youth of America! To find out more about all the reciprocal AFA/CAP partnership programs, go to the AFA Partnership link at www.capmembers.com/afa. If you are NOT a member of AFA, find out how YOU can join a community-based/community outreach AFA chapter at www.afa.org.



Join the Air Force Association today to help support this important partnership!
<https://www.afa.org/newforms/membership.aspx>



From The Deputy Director's Desk.....Dr. Jeff Montgomery

At the recently held CAP summer National Board and Conference in Baltimore, Maryland, the annual AE awards were announced. Congratulations to all of the winners!

The Frank G. Brewer Memorial Aerospace Awards

Cadet Category – C/Lt Col Michael Poussard, Middle East Region

Senior Member Category – Major John Bezayiff, Pacific Region

Organization/Individual Category – Dennis Bampton, North Central Region

Lifetime Category – Lt Col Clarence Hauck, Southeast Region

AEO of the Year Award – Capt William Blatchley, Rocky Mt Region

Teacher of the Year Award – Cynthia Byers, Great Lakes Region

AFA AE Cadet of the Year Award – C/Lt Col Michael Poussard, Middle East Region

AE Mission Awards

Region Winners

- GLR – Michigan
- MER – North Carolina
- NCR – Minnesota
- NER – New York
- PCR – California
- RMR – Wyoming
- SER – Florida
- SWR – Texas

National Winners

- 1st place – California
- 2nd place – Florida
- 3rd place – Texas

Additionally, the Pacific Region Internal AEO, Lt Col Randy Carlson, was the winner of CAP's Distinguished Service Award for his outstanding work in aerospace, and in particular, for his tremendous efforts in taking CAP's partnership with the Academy of Model Aeronautics (AMA) to incredible heights. Hundreds of CAP squadrons and thousands of CAP cadets are now

working with AMA clubs across the country, building and flying remote controlled aircraft.



Lt Col Randall Carlson accepts CAP's Distinguished Service Award from CAP National Commander, Maj Gen Charles Carr

CAP and AMA Partnership Continues to Grow

Since the AMA and CAP partnership began in early 2011, the basic AMA "Take Off and Grow" (TAG) program has a new spinoff concept called TAG-Teams within the Civil Air Patrol. TAG-Teams are CAP units and AMA clubs that have agreed to partner together to advance aeromodeling using AMA airparks and RC expertise with CAPs cadets. All CAP cadets and youth now enjoy "free" youth memberships. CAP units that work with AMA clubs are eligible for Radio Control (RC) flight simulators and related equipment to assist the cadets in learning how to fly RC aircraft. This support is provided to units that are confirmed working TAG-Teams with AMA clubs. To date over 250 TAG-Teams (CAP units) are in various levels of development within CAP, affecting an estimated 4,500 cadets and CAP mem-

bers. The MARC program is also located on the AMA/Education website as well as the CAP/Education web site making CAP and AMA awareness available to AMA's 160,000 membership and CAPs approximately 61,000 members as a recruiting tool. To find AMA Flying club near you follow the following link: <https://www.modelaircraft.org/clubsearch.aspx>.



CAP cadets participate in RC program with AMA Club

VOTE for CAP!

CAP is one of twenty finalists for the third consecutive year vying for the most popular votes to receive \$10,000 to support the national Aerospace Connections in Education (ACE) Program, which is a stepping stone to CAP's Cadet Program. CAP has been a winning recipient for two years; let's make it three! **VOTE TODAY** at www.lightspeedaviationfoundation.org. View the video at that site and encourage others to vote for our youth!





REGION TO REGION

For information on other pertinent dates for CAP Members and Educators, go to our calendar at www.capmembers.com/ae.

NORTHEAST REGION

November 3-6

The 117th Annual Conference of the Science Teachers Association of New York State will be held at the convention center in Rochester, New York.

<http://conference.stanys.org/>

November 28-30

The Pennsylvania Science Teachers Association Conference will be held at the Hershey Lodge and Conference Center in Hershey, Pennsylvania.

<http://www.pascience.org/>

MIDDLE EAST REGION

November 4-7

The 2012 Geological Society of American's Annual Meeting and Exposition will be held at UNC Charlotte Center City in Charlotte, North Carolina.

<http://www.geosociety.org/meetings/2012/courses.htm>

GREAT LAKES REGION

November 1-3

The Illinois Science Education Convention will be held at the Crowne Plaza Hotel in Springfield, Illinois.

<http://www.ista-il.org/conference.htm>

SOUTHEAST REGION

October 25-27

The Florida Association of Science Teachers will hold its conference at the Trade Winds Island Resorts in St. Petersburg, Florida.

<http://fastscienceconferencesite.org/>

November 8-10

The School Science and Mathematics Association will hold its convention at the Sheraton Birmingham Hotel in Birmingham, Alabama.

<http://www.ssma.org>

NORTH CENTRAL REGION

October 28-31

The 2012 STEMtech Conference will be held at the Westin Crown Center and Sheraton Crown Center in Kansas City, Missouri.

<http://www.league.org/2012stemtech/>

SOUTHWEST REGION

November 8-10

The Conference for the Advancement of Science Teaching 2012 will be held in Corpus Christi, Texas at The American Bank Center.

<http://statweb.org/cast>

November 12-14

The Joint Conference of the Louisiana Science Teachers Association and the Louisiana Association of Teachers of Mathematics will be held at the Shreveport Convention Center in Shreveport, Louisiana.

<http://www.lsta.info/index.php>

December 6-8

The National Science Teachers Association will hold an area conference at the Phoenix Convention Center and the Sheraton Phoenix Downtown Hotel in Phoenix Arizona.

<http://www.nsta.org/conferences/2012pho/>

ROCKY MOUNTAIN REGION

November 16

The Colorado Science Conference for Professional Development will be held at the Denver Merchandise Mart in Denver, Colorado.

<http://www.coloradoscience.org/>

PACIFIC REGION

October 19-21

The California Science Education Conference will take place at the San Jose Convention Center in San Jose, California.

http://www.cascience.org/CSTA/conf_home.asp

November 3

The San Diego Science Educators Association and the San Diego Computer-Using Educators will hold a joint conference at Cal State San Marcos in San Marcos, California.

<http://www.sdsea.org/Default.aspx?pageld=1127945>

Extra! Extra!

Honeywell Hometown Solutions and the financial contributions of Honeywell employees have made possible the scholarships for educators attending Honeywell Educators @ Space Academy. Tuition for the five-day program includes round-trip airfare, meals, accommodations, and program materials. The Academy takes place at the U.S. Space & Rocket Center in Huntsville, Alabama. It will have 2 program weeks: **June 14 – June 20, 2013 or June 21, 2013 – June 27, 2013**. The application deadline for the 2013 Honeywell Educators @ Space Academy is **Friday, December 14, 2012**.

<http://educators.honeywell.com/application>



Answers to questions on front page:

1. In 2011, only 4% of teachers surveyed taught about Cyber Security careers in their classrooms.

2. Cyber Ethics includes elements such as plagiarism, piracy, privacy, hate speech, and other aspects of Internet usage that have a somewhat moral component; Cyber Safety includes social networking, sharing of personal information, predators, and location based applications; and Cyber Security includes concerns related to malware, viruses, password protection, identity theft, and even National Security.